

86	27364	92836	89428	81268	74982	46498	32784	31277
86	40932	70987	32123	49817	26346	81287	65491	87364
721	75654	55656	12737	72727	72727	91918	63473	67867
723	87629	37677	32612	53498	71296	28756	18276	98716
269	76329	74698	76857	98670	27601	56701	57601	73648
711	87364	87265	96710	27630	12673	84769	28743	98127
78	63298	75698	27465	87326	49876	28376	81273	98615
77	87432	74328	78674	29867	32867	67867	86786	43286
77	68768	68763	34234	34238	68768	62342	48273	48768
706	98432	32432	86743	43286	43286	43286	43286	43286
743	86743	86743	39867	32867	86743	43286	43286	43243
743	86743	86743	86743	86743	86743	86743	86743	86743
792	98798	98754	98754	98754	98754	29867	67543	67986
706	87698	69876	87698	69876	87612	12341	34867	86798
743	98298	65656	56756	56123	32143	14321	32143	14321
707	58765	76587	58765	76587	58765	76587	58765	76587

Numbers & Oddities

Edition #340, January 2026

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" covers the fascinating world of Numbers Stations
and other odd radio signals on shortwave.

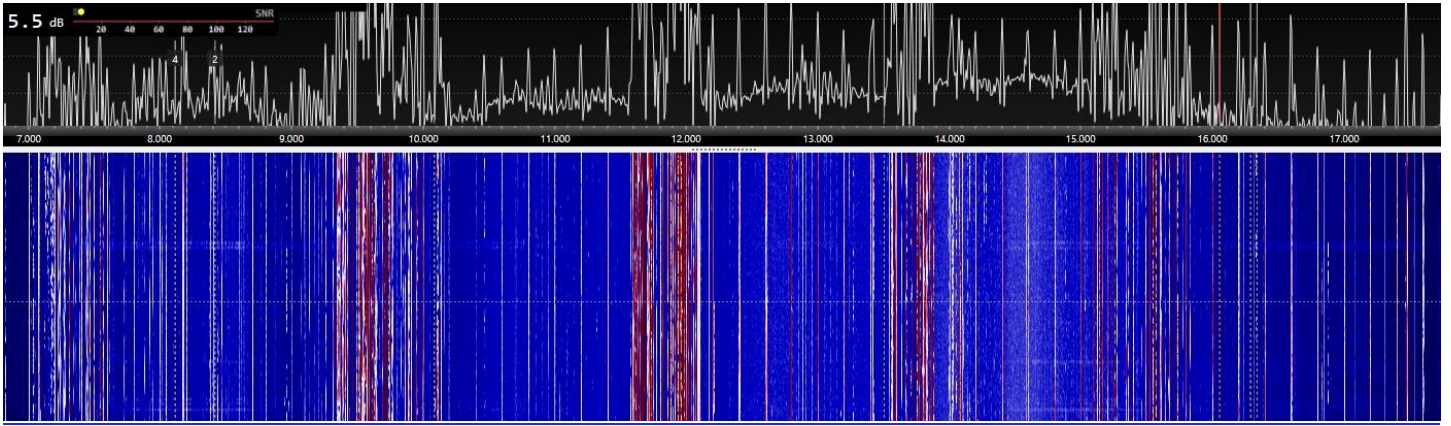


-. ..- -- -... . -.--.-.-. --- -.. -.. .. -

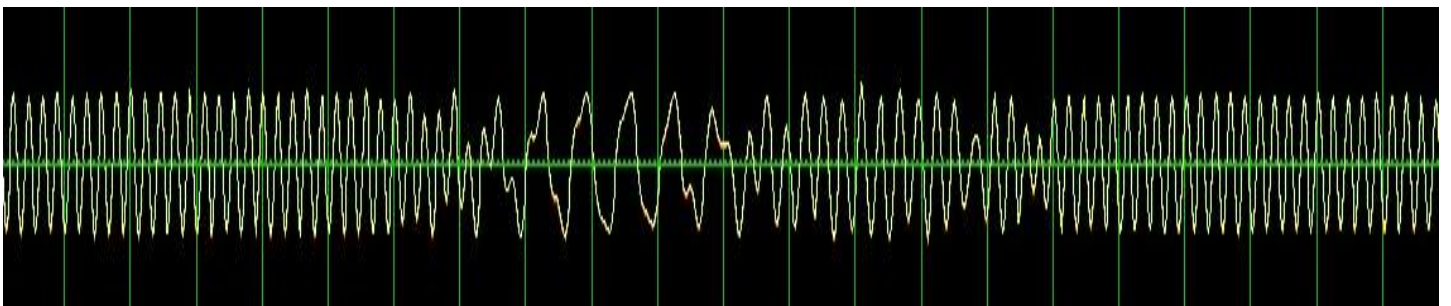


Numbers and Oddities

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NOTE FROM THE EDITOR



Let me begin with the sad news that our longtime contributor Hans-Friedrich Dumrese passed away suddenly on January 8. My thoughts are with his family and friends. We will miss his contributions to N&O.

The Polish intel stations changed a lot of schedules lately. The Priyom team found them all and you can find the logs from late December till the end of January in the Logbook.

M23 has been quite active throughout the month. M12 is still a problem here. Most transmissions are very poor at my location which explains the lack of logs.

UM10 was finally reported again after a very long absence. They were probably on the air all that time, but not logged. JP found the schedules for January. JP also provided a large number of M89, M95, and Q26 logs.

I still had not enough time to look for more diplo stations. I would love to have more time to search for diplo stations from Finland and Tunisia. Maybe next month.....



VOICE STATIONS

E06

6792 kHz, 10-01, 1630 UTC

480 169 42
40231 53081 36804 60636 80687 19281 36264 41208 83197 17672
04096 74878 20368 03593 91797 21543 75160 84647 28529 57275
39537 27608 97285 68138 74351 14845 62364 58267 07092 70724
71036 84323 91752 70586 89189 36248 73172 40374 98609 34921
79307 35916
169 42 00000

9951/6792 kHz, 17-01, 1600/1630 UTC

11514/9481 kHz, 0730/0800 UTC

480 679 48
29258 72794 53730 75494 78108 23137 89845 65039 41491 68325
15494 08427 30491 91436 85215 09404 43108 07415 86452 62780
64627 68597 50294 34539 57350 81890 15947 50131 91020 85905
71293 29893 26279 74091 36194 96218 40746 83483 58701 38383
41041 93756 57026 67864 96401 48987 25280 68404
679 48 00000

9951/6792 kHz, 24-01, 1600/1630 UTC. Several restarts in both transmissions

11514 kHz, 25-01, 0730 UTC

9481 kHz, 25-01, 0800 UTC. Restart

480 267 45
26963 91630 26384 07945 62467 39631 59259 89071 79832 85262
24851 62468 95156 51294 75645 64178 90165 08919 32729 56798
64821 70520 21294 58326 31984 03028 38309 81483 16548 39714
41746 40463 51810 53246 78502 74371 40645 87345 02754 54105
76565 48971 94345 91658 96508
267 45 00000

9951/6792 kHz, 31-01, 1600/1630 UTC

480 726 31
63193 49834 18378 73165 83069 03979 60561 43862 28753 27497
95391 49860 76791 39878 48793 97816 31597 04936 09047 35940
32025 52358 05380 39365 92964 78678 17526 09490 69160 95140
23962
726 31 00000

E07

18281/17437/16152 kHz, 01-01, 1000/1020/1040UTC

18281/17437/16152 kHz, 01-01/03-01, 1000/1022/1045 UTC

241 241 241 1 898 208 898 208
08012 71018 47613 25108 99015 68527 86553 61743 06252 05162
69329 11307 27933 53730 98206 72243 40543 14896 25625 03238
35530 56431 38349 88642 57803 75096 54338 33707 71271 92692
78594 22014 74721 65442 93962 15131 88440 77774 19767 56574
13918 43801 58825 69719 27271 35597 69057 31085 17500 87466
87936 67823 68948 19160 76230 98271 04694 52189 55927 63050
75506 64406 00289 02700 22029 14703 14640 69134 23010 58825
57949 54557 40688 05031 86699 62595 11382 23641 77372 71739
85443 87513 83637 28183 11342 10095 39646 98021 09339 47825
60984 35143 22163 53508 28093 25108 94901 52507 72270 06656
06591 75237 39430 84761 65975 90790 38278 38274 47533 37336
95787 68309 79023 60877 81439 70710 29410 58845 68951 59334
83444 28196 65808 57908 97004 01059 46865 73342 67609 22814
39947 57560 40563 14165 43689 56892 09511 02220 10878 49484
98486 00127 03196 44259 91059 88851 52669 31065 48217 36996
35697 12069 02293 63686 05946 72869 81134 54747 04379 00615
54356 99761 29061 04027 72965 50596 48791 39985 54765 70010
92930 91337 04212 44535 66281 29009 50919 16655 78784 22081
96785 20641 95580 77366 17453 42507 75394 50911 91862 56423
51354 34777 21910 94195 53142 85326 11804 05609 61996 66227
19068 71958 88898 83743 49880 45533 68425 56123 000 000

18281/17437/16152 kHz, 15-01/17-01, 1000/1022/1045 UTC

241 241 241 1 9507 171 9507 171
34170 07201 80289 83389 40567 38762 97121 93617 32828 97970
59570 90247 08975 17961 19942 13503 00438 40437 85030 94429
67510 05686 20538 92200 49068 19355 08315 03176 06484 92709
30264 02949 79873 33015 20819 35792 37462 25897 32622 44381
12290 27718 59253 98634 32201 56227 37673 28258 19599 39670
32956 68128 03264 00779 16936 45600 62647 09165 61356 32927
03573 63206 53365 10491 56457 23728 57619 10263 98750 94915
17014 03075 77009 75644 50095 48532 84362 49715 44607 14040
63214 93192 75737 98448 82562 76029 27690 75802 20491 42054
63454 25000 44994 22586 13639 11458 69127 69410 39497 49623
37146 38027 12310 30030 96130 23662 64410 16763 80543 91675
45298 12414 55587 72799 27452 24524 22536 92031 23322 02285
32071 67252 48472 98589 09975 92285 86016 18600 29881 29049
68090 69048 91024 78118 37077 91304 98417 07914 18859 19687
16480 91607 32387 86511 98764 80638 35609 94012 65660 35866
80143 05012 14841 40308 19641 04948 07090 62196 07702 47490
15014 52338 40921 25224 38018 47499 89647 28990 98623 14476
73833 000 000

18281/17437/16152 kHz, 29-01/31-01, 1000/1022/1045 UTC

241 241 241 1 997 187 997 187
14282 01075 19106 25058 61102 35935 56491 08907 30121 98134
90846 17432 13896 58814 35878 40751 82622 60471 92726 99617
75497 63618 51890 08775 96564 93534 70123 39216 45393 20015

55365 83327 72969 14590 55852 72128 36256 37030 57455 98059
30088 05004 10842 43548 45103 14993 59432 02901 77725 44219
59176 66567 97889 80195 30921 46585 43014 96489 29418 30826
75497 51447 14110 05120 77363 75985 09311 17556 49831 34871
82432 36389 85118 92155 92191 29309 71499 10853 22563 15874
19620 85069 34783 25439 97533 56140 40329 05007 73446 71686
21085 68234 69020 25180 86336 29562 20243 50488 13450 06381
75104 23134 30237 52738 15299 02870 99267 51175 69978 94262
47825 64052 44571 53159 87035 97429 64333 62779 67008 63859
98463 93359 79870 75726 35890 09724 96060 30467 16650 18205
44612 07951 78190 51841 39979 29740 47647 19327 23495 18838
93728 97687 74404 49592 38466 99986 42974 57666 51100 34058
09579 31224 07447 91675 29277 31382 90661 77994 21349 12309
15885 39624 86763 83017 84168 64487 90807 30863 39522 84630
97887 14932 42395 11408 62573 92394 55906 26436 67916 54934
65787 09321 47679 01514 92895 38109 07204 000 000

13375/12175/10375 kHz, 1500/1520/1540 UTC

13375/12175/10375 kHz, 06-01/09-01, 1500/1520/1540 UTC

313 313 313 1 887 143 887 143
34478 31917 28395 76341 95655 62992 98552 76060 38495 04790
01277 85898 36985 08691 52803 14379 13774 39926 30875 18330
04742 72796 72006 70474 39885 95723 14891 92779 35709 31370
22758 82653 62156 39390 30433 81135 57089 84074 72639 25854
03196 01855 55269 66725 84715 81224 84114 50846 54869 18894
70351 59975 16962 22232 97929 01580 22971 17012 32709 24377
96183 43124 89237 27744 23440 67660 57487 92622 11988 11657
19572 69588 34157 65123 88376 82736 82926 88093 20369 80056
15913 38666 58930 42254 51526 98571 68567 18875 10646 87295
10595 41510 32156 17800 77934 23309 70044 35930 21452 94908
83334 03371 80135 35400 96690 34460 24638 54354 13735 54173
97885 31901 67805 87754 41317 33243 67978 63384 05929 50825
00363 05216 23990 57605 02249 01624 44371 69767 10617 23861
04460 15927 06065 28074 40416 07901 31105 19715 42283 22824
40139 27750 12846 000 000

13375/12175/10375 kHz, 20-01/23-01, 1500/1520/1540 UTC

313 131 313 1 993 188 993 188
47134 54239 57144 09924 76119 17328 40299 36318 37505 59555
13824 59656 29843 51480 73412 42164 28003 55927 66875 92409
77995 69357 39537 64274 09166 15975 51860 34436 80135 86973
64207 92424 80017 89563 12819 07622 28788 84543 18730 09184
01835 86532 12141 48448 36155 88960 19007 14823 59798 07729
67755 26587 58972 53506 76709 19999 65959 21779 94704 43451
35183 14876 09888 71519 33674 93836 96289 67633 18947 19172
88314 75112 44741 15379 79387 30547 32398 28568 45234 39481
51807 93416 79042 36651 05622 78353 52122 32497 26877 40777
57816 35514 54871 30069 03859 83949 45100 17100 78476 59652
11117 03042 28718 04372 28738 01302 51995 79566 08363 74398
22380 20102 49424 74224 94722 42099 01320 20969 25164 47207
91992 59873 40486 52012 24411 45018 31423 41484 51084 95315
30567 26989 09861 61562 19191 95113 76521 28399 35790 37031
03415 48209 83717 52595 46202 97871 14081 65685 20464 09756
29967 83424 42226 38534 83852 51118 84435 97493 35340 17690
24457 16211 49532 92816 98728 61395 19041 53038 08440 18523
43412 70025 06752 91874 24499 49057 17655 82082 01375 23628
49399 17324 17875 09202 88961 88277 53289 11570 000 000

7351 kHz, 03-01/04-01, 0700 UTC

496/39 Attention

52303 42598 12531 47441 16822 63770 81495 72707 87461 95887
43863 14562 90143 81309 05702 11667 18341 92701 38857 25332
04973 50588 23105 34046 93386 74924 13525 79074 02701 83235
91135 13641 96571 57739 56095 49630 88555 97204 48442

Attention (message repeated) Out

20286 kHz, 05-01, 0600 UTC

159/24 Attention

44 11 77 66 33 11

Attention

4 1 7 631

Out

10213 kHz, 05-01, 0745 UTC**5409 kHz, 08-01, 1530 UTC**

267/31 Attention

27949 44021 64663 07138 99345 65163 01394 49154 13317 12792
92223 48553 89342 53116 94277 28421 27612 73522 37880 64915
74193 60035 04039 73029 42598 34959 85520 03818 72491 36466
63424

Attention (message repeated) Out

6849 kHz, 05-01/08-01, 1900 UTC

647/34 Attention

63604 72657 65011 71994 15519 21701 95692 63298 26745 81293
23474 44024 94197 14003 98213 87472 85049 49975 67148 92131
24301 59859 72558 13895 95739 89292 12002 53672 27177 07268
96214 03696 26613 63314

Attention (message repeated) Out

17378 kHz, 06-01/08-01, 0845 UTC

159/24 Attention

65270 31983 84595 29191 50642 39612 88632 57986 45439 91399
74329 21728 90648 85053 93405 64565 89365 11137 76624 84356
31613 29208 44760 65118

Attention (message repeated) Out

5432 kHz, 06-01/11-01, 1605 UTC

232/34 Attention

25880 11534 44049 33294 58921 31895 39550 43362 17345 68319
80813 33248 31312 18572 58532 01862 59664 15847 51547 66285
45475 99332 99094 12931 86142 46306 81745 24111 35111 68681
76028 36758 17717 65562

Attention (message repeated) Out

17378 kHz, 07-01/09-01, 0745 UTC

340/37 Attention

99189 28132 75420 46578 97285 52435 48103 50263 17245 72581
43311 05123 41802 74672 40739 37495 78132 09729 18085 55809
53676 72713 24342 32193 83366 50619 42234 06126 00136 45927
02863 78467 53756 41717 89513 92668 54494

Attention (message repeated) Out

4909 kHz, 12-01/15-01, 1300 UTC

311/36 Attention

96138 35903 49749 13933 63086 16321 66249 06847 72086 86523
82694 50888 37413 54756 05542 14442 17796 39730 95678 82251
03750 24081 08726 77708 48236 94098 75143 91532 85883 28918
02444 43028 42743 15426 71400 75931

Attention (message repeated) Out

6804 kHz, 13-01/16-01, 0700 UTC

574/36 Attention

75288 64310 82878 69492 28055 14749 54193 87938 76431 21857
71875 40095 54928 68583 34531 33538 39910 50801 58904 64414
59150 49222 32652 15477 59891 85491 38925 09297 57814 21177
90409 22090 35636 06109 93910 55486

Attention (message repeated) Out

9079 kHz, 13-01/16-01, 1000 UTC

306/30 Attention

27318 12547 52742 31517 95530 57491 75873 62661 94564 41112
96714 26401 08773 55243 60596 28519 60800 08138 53446 16545
22064 39781 58321 03213 62385 44609 48197 68934 26345 89195

Attention (message repeated) Out

11559 kHz, 13-01/14-01, 1205 UTC

463/31 Attention

40731 05812 23998 34393 18355 43236 04558 39608 29855 61562
26472 67304 99021 25721 27259 31212 33608 68792 16532 95450
45703 84013 59993 56813 88223 68078 47165 34881 13334 20215
04181

Attention (message repeated) Out

4505 kHz, 14-01/17-01, 1610 UTC

399/35 Attention

11748 18660 80007 45793 35685 03004 43967 03787 29082 81230
45279 93620 98850 17834 01117 31594 48483 91203 18076 09141
89615 31735 60349 91922 92373 44402 68938 80522 14102 19615
13780 70806 52024 25472 78463

Attention (message repeated) Out

8180 kHz, 15-01/16-01, 0720 UTC

438/32 Attention

25510 51404 43524 84124 14945 93936 43869 70361 95085 84544
35938 78310 12226 54566 98379 55316 55682 83478 16438 83935
20256 01853 65404 88955 21926 63358 19016 73677 23802 23037
03902 31046

Attention (message repeated) Out

12067 kHz, 19-01/21-01, 0845 UTC

719/34 Attention

25948 40325 43866 38057 37791 40582 58057 75269 80081 29248
27280 87771 55028 96751 58395 84337 37492 04481 20138 71118
65497 96060 10372 36435 49301 15981 43378 31376 85435 46395
23165 04024 49944 74642

Attention (message repeated) Out

12385 kHz, 20-01/22-01, 0645 UTC

518/36 Attention

10734 74872 73263 72034 32568 84321 56403 70030 62497 61922
41841 05420 39619 48237 52197 42438 56024 17406 10142 55881
98858 93733 19119 14987 99247 01289 56984 31949 20754 68276
48786 23652 07067 03198 14615 42693

Attention (message repeated) Out

23031 kHz, 20-01/22-01, 0745 UTC

221/39 Attention

56735 90718 71716 80540 75512 64360 81356 67170 79144 40782
42977 25392 37645 85869 77440 89766 22781 93317 57573 52771
27636 38797 22979 15726 32769 65755 72851 35118 02205 13388
22021 29813 61771 68650 81745 33946 54116 47909 30574

Attention (message repeated) Out

5082 kHz, 22-01/25-01, 2000 UTC

525/39 Attention

90199 10764 07068 05744 98457 96371 48035 37165 82327 81925
02966 99285 54563 53523 62672 43505 55272 53551 70601 02595
11835 98633 68503 30657 57997 88321 09875 13964 05468 58129
12434 21816 60705 76164 44273 31894 52680 72513 45073

Attention (message repeated) Out

6849 kHz, 23-01/25-01, 1815 UTC

924/38 Attention

09723 46479 64592 23461 85709 35376 39723 13701 98467 25687
65247 94848 69757 97882 06032 53001 52124 52751 90024 88530
32552 15773 27573 97198 31516 47368 08649 44224 43017 71243
87040 08832 34460 87458 04504 04332 56909 91174

Attention (message repeated) Out

20167 kHz, 26-01/28-01, 0715 UTC

751/39 Attention

92385 83028 34781 34056 32512 81770 39493 46829 40848 90669
00194 23357 02502 25027 46061 04580 61937 15184 06373 01387
41584 10655 14587 99476 73362 87366 13478 03759 53120 26874
50665 20741 72064 77237 40418 24955 27539 32475 71123

Attention (message repeated) Out

15915 kHz, 26-01/28-01, 0900 UTC

536/33 Attention

16958 11734 00041 57976 76429 20978 41561 70594 72812 32462
15571 07228 80286 23008 84699 62441 49596 49963 04340 74488
07794 09460 32731 79915 78010 61227 42992 54939 77786 63546
65039 2012173944

Attention (message repeated) Out

13911 kHz, 27-01/30-01, 0715 UTC

637/30 Attention

78865 22193 99651 88629 67860 02980 11879 61736 51907 73192
39260 72545 95784 49594 87269 74544 07022 58641 32286 72023
64479 19359 02496 42160 18703 69110 14688 65790 69410 60991

Attention (message repeated) Out

13363 kHz, 27-01/31-01, 1430 UTC

911/39 Attention

59999 82735 22213 53286 54395 81685 71750 20926 62084 35133
24557 65933 27939 55651 15468 12560 13134 59249 91385 43683
14979 95050 89935 25242 21534 93687 61684 14153 66028 49003
05812 63672 16967 99918 79483 07508 15208 27239 16470

Attention (message repeated) Out

7469 kHz, 28-01/29-01, 0930 UTC

273/33 Attention

76945 49497 94754 76952 62300 70565 47484 21541 63132 50551
31282 51814 92910 02306 71449 63185 99956 74029 84776 89674
47560 40711 15228 18208 23354 32962 65479 32439 73876 57709
96673 42754 11437

Attention (message repeated) Out

5082 kHz, 28-01/30-01, 1715 UTC

970/35 Attention

27576 97556 47055 74367 80311 89362 45211 93331 29546 28416
 05513 09475 75615 63275 94758 21409 75886 77203 15434 63531
 16322 92256 76310 13657 44589 86587 84691 18845 59558 31840
 29689 28241 45963 92694 93657
 Attention (message repeated) Out

7850 kHz, 30-01, 0600 UTC

352/38 Attention

05116 85107 52203 11340 83394 21408 20944 58219 03283 03780
 87766 54685 12702 13600 05702 29872 74965 10856 39730 93460
 58821 29499 95518 50973 85357 97543 16141 84777 76135 80116
 30825 03344 51927 78550 58480 60083 55278 09171
 Attention (message repeated) Out

4909 kHz, 31-01, 1645 UTC

364/40 Attention

36001 59387 32745 35740 70712 41322 73501 15346 46391 32113
 19060 02570 03143 34315 27237 04023 59899 11435 28864 34797
 30247 80723 68943 22270 24658 04730 29528 15121 90242 49865
 22777 29807 85328 03505 82299 28648 36238 94051 31365 55983
 Attention (message repeated) Out

S06**No transmissions on 1-9 January..****11616/9322 kHz, 12-01/13-01, 0400/0420 UTC**

480 659 57

58993 65685 92439 48465 43809 41244 80280 01106 90096 67713
 85742 83724 28481 29740 64644 13391 09126 77228 36996 17560
 81384 92378 65914 47442 54418 61501 60479 11011 55957 37568
 32196 74066 31384 04409 59759 02810 50349 78512 41804 46354
 13087 09365 42338 82620 73626 64257 58531 76043 22086 08503
 65555 20535 93237 17002 18173 66138 93521
 659 57 00000

11616/9322 kHz, 14-01/15-01, 0400/0420 UTC

480 319 24

79742 06553 59761 11873 78648 51480 66762 10524 49802 92122
 76271 99232 47501 93103 52110 75561 27220 44082 78967 19957
 51223 31243 40123 78098
 319 24
 480 712 36
 54278 40466 52750 55206 69175 55004 26793 37549 68377 22730
 95387 87283 35531 74252 48469 13538 88521 35206 70244 92497
 59035 92800 15674 68571 92133 62458 87444 57997 58042 15503
 18114 78327 93332 53803 87124 52233
 712 36 00000

11616/9322 kHz, 16-01, 0400/0420 UTC 480 480 480 00000**11616/9322 kHz, 19-01/20-01, 0400/0420 UTC**

480 762 53

27514 16458 97485 56249 03668 61141 37257 20775 74089 49373
 44868 20284 24878 99507 26416 31906 49957 97554 68854 49959
 93653 03788 41799 38706 33206 59066 97858 77777 23661 08047
 27451 29969 60576 81469 89013 86077 12990 04733 20572 66490
 60070 24902 43595 84182 19901 73383 95065 98842 39827 06417
 28711 16795 14812
 762 53 00000

11616/9322 kHz, 21-01/22-01, 0400/0420 UTC

480 531 22
86427 76984 73672 23698 67249 79486 74901 57334 92302 86284
02394 91496 92630 65463 35900 96602 53588 85185 98141 70804
63646 31950
531 22
480 697 34
08110 29336 83582 06371 57874 27269 78857 11071 24465 82991
07934 91869 21079 06801 18854 46770 01674 63181 82558 48029
90303 61257 63876 90859 93373 59786 65267 05896 30737 66400
41759 27624 46574 35766
697 34 00000

11616/9322 kHz, 23-01, 0400/0420 UTC 480 480 480 000

11616/9322 kHz, 26-01/27-01, 0400/0420 UTC

480 521 60
43814 87249 64165 62166 77869 65379 75370 49862 81626 45523
55470 13947 53502 29353 35020 00724 67578 75981 25874 25884
59442 23721 97205 98350 64019 73741 62558 99303 29468 53130
63879 47063 55351 99522 63450 95524 28571 34516 79676 66839
55490 18029 27655 88005 13687 00812 50468 96090 71768 17286
52136 45741 50696 85905 68167 05687 25049 09225 34644 47916
521 60 00000

11616/9322 kHz, 28-01, 0400/0420 UTC

480 216 37
75460 81296 32040 80036 48641 46051 86317 85084 47961 41859
05419 01115 31806 84928 66845 72931 85702 85390 08736 03607
61891 63899 06593 06861 85008 98788 02844 23612 78569 77239
56418 38622 91940 48887 04535 58172 32485
216 37
480 973 21
99383 59632 37752 05933 25685 98404 55347 49588 07408 49529
49985 50157 08786 57191 32694 88351 36191 42298 28214 63821
42628
973 21 00000

11616/9322 kHz, 29-01, 0400/0420 UTC. Same message as on 28-1 but in reverse order

480 973 21
99383 59632 37752 05933 25685 98404 55347 49588 07408 49529
49985 50157 08786 57191 32694 88351 36191 42298 28214 63821
42628
973 21
480 216 37
75460 81296 32040 80036 48641 46051 86317 85084 47961 41859
05419 01115 31806 84928 66845 72931 85702 85390 08736 03607
61891 63899 06593 06861 85008 98788 02844 23612 78569 77239
56418 38622 91940 48887 04535 58172 32485
216 37 00000

11616/9322 kHz, 30-01, 0400/0420 UTC 480 480 480 00000

S11a

11486 kHz, 03-01, 1850 UTC

287/35 Vnimanıye
11443 27593 78848 51708 41491 31330 52483 29149 45279 96001
66010 51940 53351 72376 10950 09774 08462 48010 56990 00322
37158 23211 73675 61732 33594 55669 37414 15633 39813 47797
06798 75024 11209 39924 71353
Vnimanıye (message repeated) Konets

9050 kHz, 05-01/08-01 0700 UTC

476/35 Vnimanije

67727 49810 58325 64496 92909 02507 88993 97796 99907 73605
 41242 81947 53832 35642 12631 79528 82085 73860 50764 85021
 44096 62259 02818 64550 55235 27529 83288 09941 25008 71005
 63371 28697 54202 95194 24538

Vnimanije (message repeated) Konets

6252 kHz, 19-01, 0915 UTC

482/32 Vnimanije

52563 69470 98005 26571 09543 07566 02361 14956 01852 84073
 23732 98546 54226 68233 54848 56339 12581 92664 65274 34447
 50232 23180 17224 13881 67120 56159 61697 81103 23597 48302
 01829 16801

Vnimanije (message repeated) Konets

10448 kHz, 20-01/23-01, 1400 UTC

426/38 Vnimanije

79978 96223 80192 18673 96732 59179 25171 07354 38397 74793
 06762 62640 79840 61604 82649 48960 47806 36999 29924 08501
 09024 50007 71974 29639 71765 90786 79918 29486 53307 81178
 41168 67332 71854 18954 24907 32220 61692 16738

Vnimanije (message repeated) Konets

5371 kHz, 24-01/25-01, 0830 UTC

377/38 Vnimanije

28815 95428 12391 73396 25763 25883 26797 50856 26956 47801
 75849 47053 04021 64087 01850 57930 76392 27318 86249 92061
 19387 44935 84467 68554 28155 59646 18404 95067 31904 15995
 37696 29650 86553 29851 72945 44005 12597 55708

Vnimanije (message repeated) Konets

19515 kHz, 28-01, 0725 UTC

384/34 Vnimanije

01411 40962 11989 64550 37257 55140 48263 95310 68866 67892
 55821 77809 13275 69566 64316 02563 69754 46254 02911 47421
 39663 66760 69990 38991 95803 35421 23234 43024 37266 46349
 90029 23607 53256 84155

Vnimanije (message repeated) Konets

**MORSE STATIONS****MX**

10872.7 kHz, 22-01, 0745 UTC	D	Sevastopol
10871.8 kHz, 22-01, 0745 UTC	P	Kaliningrad
10871.9 kHz, 22-01, 1444 UTC	S	Sevoromorsk
10872.0 kHz, 22-01, 1444 UTC	C	Moscow
7508.7 kHz, 22-01, 0752 UTC	D	Sevastopol
7509.0 kHz, 22-01, 0752 UTC	C	Moscow
16331.7 kHz, 22-01, 1453 UTC	D	Sevastopol
16331.9 kHz, 22-01, 1453 UTC	S	Sevoromorsk
13527.8 kHz, 22-01, 1453 UTC	P	Kaliningrad
13527.7 kHz, 22-01, 1453 UTC	D	Sevastopol
20047.7 kHz, 22-01, 1453 UTC	D	Sevastopol
10872.2 kHz, 22-01, 1503 UTC	F	Vladivostok
10872.4 kHz, 22-01, 1503 UTC	M	Magadan

7509.3 kHz, 22-01, 1507 UTC	K	Petropavlovsk Kamchatskiy
5156.8 kHz, 22-01, 1517 UTC	L	St Petersburg
8497.6 kHz, 26-01, 1759 UTC	L	St Petersburg

M01

4490 kHz, 01-01, 2000 UTC. Different repeat and errors in red

197 921 921 30 30 = =
 94231 80923 48412 78873 90091 23415 83675 79822 43321 87431
 67231 94234 65420 45091 7567177 89705 89785 23442 86521 87436 66541
 44561 561 440 46 09992 43001 401 500 550 67010 57100 00421 63812 40021
 = = 921 921 30 30 000

5320 kHz, 06-01, 1800 UTC. Different repeats in red

197 453 453 30 30 = =
 83901 93901 88590 44390 02917 84900 84311 45739 65401 95043 96057
 86900 87495 47728 19160 90967 89440 87932 95004 48319 56041
 94940 57495 38291 57489 39002 19482 33829 10432 57481 57481 57481 94006
 = = 453 453 30 30 000

4490 kHz, 06-01, 2000 UTC

197 790 790 30 30 = =
 47658 25453 22431 47765 66980 50555 87690 46537 46564 35423
 09890 57654 45324 39865 25437 58696 35546 14325 68790 57647
 48754 33546 29800 57689 57689 35643 89709 44789 55787 36544
 = = 790 790 30 30 000

5810 kHz, 10-01, 1500 UTC

197 909 909 30 30 = =
 65744 76371 20918 17265 11092 39811 49058 48716 47839 16527
 55789 40922 37615 15426 30917 30371 10946 58675 09587 38117
 20251 46474 24352 37463 11762 37822 86968 56748 17625 37261
 = = 909 909 30 30 000

5465 kHz, 11-01, 0659 UTC

197 476 476 30 30 = =
 53017 12314 37615 11092 33091 59048 44095 60990 47625 54132
 54636 14325 65784 55784 77096 85768 89709 67588 10937 15422
 54638 01901 20917 22651 35267 48716 44094 57689 44986 09587
 = = 476 476 30 30 000

5465 kHz, 18-01, 0659 UTC. Only 29 groups were sent

197 341 341 30 30 = =
 31298 79412 42910 42389 65823 88231 74212 48922 96054 08124
 32798 28172 42890 33879 38221 47821 47212 04228 42721 42791
 42782 63422 87901 47212 74214 95762 87352 23756 32233
 = = 341 341 31 30 000

5465 kHz, 25-01, 0707 UTC. Late start. No id.

619 619 30 30 = =
 10592 07930 10592 67401 50501 69041 05910 58103 70193 96816
 05917 40185 41759 10482 30701 39601 63906 10362 39560 10470
 40790 58106 75390 66182 95014 47201 58219 50391 58030 93061
 = = 619 619 30 30 000

4490 kHz, 27-01, 2000 UTC

197 209 30 209 30 = =
 09890 38769 15434 22879 48691 33987 40956 38376 46123 59800
 49867 37265 10978 48768 44080 68745 16547 39867 40989 55980
 33768 25343 10978 47658 36545 27756 39870 57789 33376 01109
 = 209 30 209 30 000

5810 kHz, 31-01, 1500 UTC

197 687 30 687 30 = =
 50987 27645 11876 89709 47689 44768 36512 40978 39687 30978
 40978 54654 18698 44097 87890 34876 12134 60698 59800 27564
 56765 29687 38789 EEEEEEE
 29687 38780 15543 22654 60989 37658 26534 59867 10198
 = = 687 30 687 30 000

M12

During the past few months all M12 transmissions have been very weak here in Holland, or not audible at all.

6879/7652/8176 kHz, 02-01, 2200/2220/2240 UTC

861 861 861 1 3161 72 3161 72
 33985 54685 15509 09424 35080 93357 07696 88135 98578 58104
 52402 48584 71501 73414 06131 39346 73101 52585 93614 78768
 84719 74918 25067 29510 83362 83690 14768 44463 75688 76781
 48710 95666 59697 37704 38790 91330 53697 26733 17942 53692
 04589 58153 68168 35733 94829 30358 47346 15979 75930 67870
 89890 34663 00918 86526 02591 72244 18705 92762 87598 70584
 60546 58392 37667 95120 19126 14351 97864 31274 31298 15430
 50931 80691 000 000

11564/10487/9319 kHz, 31-01, 1900/1920/1940 UTC

258 258 258 1 7723 164 7723 164
 17612 28449 35931 96615 57135 05241 00683 86113 74634 62348
 26300 27889 24508 46459 17748 02610 66450 24173 01453 78289
 01267 37784 85468 99897 19501 15203 20617 84271 70408 23897
 19410 06173 51159 03708 60571 27592 49002 23646 44788 63684
 06238 24309 59090 70391 11417 57967 67639 34998 74599 30592
 53489 30211 15663 31939 28676 79827 42980 36033 77114 41932
 84623 16411 15705 50737 42937 20127 76728 20800 85887 90155
 53607 42803 79384 37768 72050 76957 78692 15076 88479 61533
 47562 85617 09671 39815 70406 89198 90509 19219 75030 80742
 84610 12969 46531 02855 79060 89825 08603 08353 27454 91289
 81237 46839 49110 84442 76984 10686 50826 77894 59888 51718
 01135 27904 47553 15580 94369 99004 06739 75888 80329 53738
 29617 57508 45768 05144 05545 40637 96270 76528 58707 82224
 68353 70338 87621 97188 80295 00722 36506 25227 62830 59719
 38371 12614 59330 23312 79607 56706 65415 30951 08485 80054
 83085 32713 28023 73715 61672 23728 01070 43966 78897 36346
 14415 74296 19187 77662 000 000

M14

No transmissions on 1-9 January.

12211/10243 kHz, 12-01, 0500/0520 UTC**12211 kHz, 13-01, 0500 UTC****10243 kHz, 13-01, 0520 UTC. 952 (R4m) off**

952 461 461 53 53 = =
 22120 57488 60161 94909 61621 15310 85907 82119 66513 66321
 85349 59352 43321 56214 27252 46970 51539 45903 08452 65465
 50152 87914 54538 32603 52078 42318 18283 49324 22452 11905
 74262 66612 81690 01288 33109 50501 99293 29612 23834 87414
 89291 51574 17640 97027 43295 66420 91693 44833 62084 19627
 56265 71603 71666
 = = 461 461 53 53 00000

12211/10243 kHz, 14-01, 0500/0520 UTC

12211 kHz, 15-01, 0506 UTC. Started late with group 9:

10243 kHz, 15-01, 0520 UTC

952 104 104 23 23 = =
32810 93966 66268 61866 42747 48828 48770 26961 89260 77113
21440 09706 15854 54039 23809 00003 08353 65250 41700 89946
17042 86262 48174
= = 104 104 23 23
952 867 867 34 34 = =
79763 36576 59122 03161 99350 82580 46564 12935 38288 63821
66708 89099 25151 72377 00913 18310 67505 92537 77919 55769
73873 04383 60515 02305 57826 98014 85419 47541 72649 40618
67330 33892 50007 63534
= = 867 867 34 34 00000

12211/10243 kHz, 16-01, 0500/0520 UTC 952 952 952 00000

12211/10243 kHz, 19-01/20-01, 0500/0520 UTC

952 301 301 56 56 = =
23475 40958 93288 75933 01161 47607 07764 05140 84764 20558
82631 07285 20765 58100 13808 59295 55500 75395 69455 38770
35917 76977 96245 74065 53778 46543 12058 26521 50519 39966
14782 53242 24926 92464 61929 23894 10842 75871 00731 89929
17080 66939 53405 29708 46727 12620 87296 17913 38030 03248
24562 92740 94055 89575 71090 19272
= = 301 301 56 56 0000

12211/10243 kHz, 21-01, 0500/0520 UTC

952 784 784 26 26 = =
23573 15620 93896 97678 14553 93540 10635 77113 90731 70942
87501 47356 54613 69201 50686 10920 51539 53968 98147 81102
40560 58259 58808 96731 61881 88455
= = 784 784 26 26
952 630 630 29 29 = =
62833 28955 24617 40931 01120 63149 43673 48017 52492 84390
95125 48211 51615 88249 43037 67859 35369 59878 91949 98591
81510 61086 91027 61795 49783 29631 99239 78262 48902
= = 630 630 29 29 00000

12211/10243 kHz, 22-01, 0500/0520 UTC. Same messages as on 21-01 but in reverse order.

952 630 630 29 29 = =
62833 28955 24617 40931 01120 63149 43673 48017 52492 84390
95125 48211 51615 88249 43037 67859 35369 59878 91949 98591
81510 61086 91027 61795 49783 29631 99239 78262 48902
= = 630 630 29 29
952 784 784 26 26 = =
23573 15620 93896 97678 14553 93540 10635 77113 90731 70942
87501 47356 54613 69201 50686 10920 51539 53968 98147 81102
40560 58259 58808 96731 61881 88455
= = 784 784 26 26 00000

12211/10243 kHz, 23-01, 0500/0520 UTC 952 952 952 00000

12211 kHz, 26-01, 0500 UTC

952 841 841 56 56 = =
62244 87356 79131 04848 71459 38835 93131 05823 70955 08141
92425 34393 15607 46959 97047 73710 11102 08322 70068 03753
55443 47836 92539 19794 50070 73077 79161 54492 29060 83299
45613 58283 79814 66670 63473 17756 53708 47216 63686 16703
90097 98654 74492 69543 02161 67319 04772 81785 97982 71342
08034 17234 35333 68301 92899 76622
= = 841 841 56 56 00000

At 0516z:

952 841 841 56 56 = =
62244 87356 79131 04848 71459 38835 93131 05823 70955 off

10243 kHz, 26-01, 0522 UTC. Switched from 12211 kHz

141
92425 34393 15607 46959 97047 73710 11102 08322 70068 03753
55443 47836 92539 19794 50070 73077 79161 54492 29060 83299
45613 58283 79814 66670 63473 17756 53708 47216 63686 16703
90097 98654 74492 69543 02161 67319 04772 81785 97982 71342
08034 17234 35333 68301 92899 76622
= = 841 841 56 56 00000

12211 kHz, 27-01, 0506 UTC

952 (R) off, back at 0506z with
2 08322 70068 03753
55443 47836 92539 19794 50070 73077 79161 54492 29060 83299
45613 58283 79814 66670 63473 17756 53708 47216 63686 16703
90097 98654 74492 69543 02161 67319 04772 81785 97982 71342
08034 17234 35333 68301 92899 76622
= = 841 841 56 56 00000

10243 kHz, 27-01, 0520 UTC

952 841 841 56 56 = =
62244 87356 79131 04848 71459 38835 93131 05823 70955 08141
92425 34393 15607 46959 97047 73710 11102 08322 70068 03753
55443 47836 92539 19794 50070 73077 79161 54492 29060 83299
45613 58283 79814 66670 63473 17756 53708 47216 63686 16703
90097 98654 74492 69543 02161 67319 04772 81785 97982 71342
08034 17234 35333 68301 92899 76622
= = 841 841 56 56 00000

12211/10243 kHz, 28-01, 0500/0520 UTC

952 108 108 42 42 = =
44369 00405 25672 39993 89142 35730 63393 53110 72497 17402
76630 45532 75047 78745 58250 87811 55692 19895 12126 90310
96188 74416 04989 56189 34886 21728 47280 79432 25558 25007
01448 80064 82268 99275 41118 93769 96212 39352 09587 58093
35465 62342
= = 108 108 42 42
952 736 736 14 14 = =
65265 68631 56815 77065 12899 79542 48031 81204 97628 42018
47807 83381 56524 34254
= = 736 736 14 14 00000

12211/10243 kHz, 28-01, 0500/0520 UTC. Same messages as on 28-01 but in reverse order

952 736 736 14 14 = =
65265 68631 56815 77065 12899 79542 48031 81204 97628 42018
47807 83381 56524 34254
= = 736 736 14 14
952 108 108 42 42 = =
44369 00405 25672 39993 89142 35730 63393 53110 72497 17402
76630 45532 75047 78745 58250 87811 55692 19895 12126 90310
96188 74416 04989 56189 34886 21728 47280 79432 25558 25007
01448 80064 82268 99275 41118 93769 96212 39352 09587 58093
35465 62342
= = 108 108 42 42 00000

12211/10243 kHz, 30-01, 0500/0520 UTC 952 952 952 00000

10212 kHz, 14-01, 1530 UTC. Not heard

10212 kHz, 21-01, 1520 UTC. Two series of beeps

10212 kHz, 21-01 1530 UTC

636 718 718 46 46 = =
73701 19207 73256 10118 22557 25626 71431 08256 33837 06374
03858 48489 98854 17415 22303 24401 34227 60351 02430 27551
39037 12031 10580 75181 02113 04643 23014 00130 20323 60994
21019 20130 13860 14639 10334 28702 49427 69569 38335 74811
07269 79130 07407 23479 52996 48909
= = 718 718 46 46 00000

10212 kHz, 28-01, 1523 UTC. Two series of beeps

10212 kHz, 28-01, 1530 UTC

636 502 502 41 41 = =
94479 03562 59935 55908 27819 80138 93291 80420 65893 82365
35073 99509 96915 38678 39352 17986 92163 16680 75175 11226
54295 33437 21794 20101 85671 65874 64390 48321 68897 22201
94969 85683 76748 60319 48126 05615 53686 64128 26351 10484
36138
= = 502 502 41 41 00000

M23

6806 kHz, 10-01, 1704 UTC i.p. 5's and 0's

Frequency: 6961 kHz

As always, their clock is running slow. It is reset occasionally. Runs up to 1 minute slow.

Reported transmissions:

Message: 0 (R3m)

11-01: 1645, 1700, 1729, 1744, 1759, 1830, 1845 UTC
12-01: 0529, 0544, 0600, 0630, 0645, 0700, 0730, 0745, 0800, 0830, 0845, 0900, 0929, 0944, 0959, 1029, 1044, 1059, 1129, 1144, 1159, 1230, 1245, 1300, 1459, 1529, 1544, 1900 UTC
13-01: 0659, 0729, 0744, 1059, 1129, 1144, 1459, 1529, 1544, 1900, 1930, 1945 UTC
14-01: 0659, 1059, 1129, 1144, 1459, 1529, 1544, 1900, 1930, 1945, 2300, 2330, 2345 UTC
15-01: 0300, 0330, 0345, 0659, 1059, 1129, 1144, 1459, 1529, 1544, 1900, 1930, 1945, 2300, 2330, 2345 UTC
16-01: 0300, 0330, 0345, 0659, 0800, 0830, 0845, 1100, 1130, 1145 UTC

Message: 9 (10m 36s)

16-01: 1435 UTC

Message: 0 (10m 36s)

16-01: Hourly 1600-2300 UTC
17-01: Hourly 0000-2300 UTC (barely audible at 2300z; fading signal).
18-01: Not heard between 2300 and 0800z UTC. Hourly 0800-2200 (barely audible). Not heard between 0910 and 1500 UTC. Either too weak or not on the air. Not monitored between 2210 and 0600 UTC
19-01: Hourly 0700-2300 UTC
19-01: 0900 UTC 0 (R9m 40s)
19-01: 0916 UTC 0 (R2m 36s)
20-01: Hourly 0100-2300 UTC
21-01: Hourly 0100-2100 UTC (2200, 2300z not heard)
22-01: 0100 not heard, 0200, 0300 (barely audible), 0400-0600 (not heard), 0700-1700 UTC (1800-2300 UTC not monitored)
23-01: 0000-0600 not monitored, Hourly -2300 UTC
24-01: 0000, 0100 (both barely audible), 0200-0600 (all not heard), Hourly 0700-2300 UTC
25-01: Hourly 0000-2300 UTC
26-01: Hourly 0000-0800 UTC, 0900-1200 not heard, hourly 1300-2100 UTC, 2200-2300 not monitored
27-01: 0000-0500 not monitored. Hourly 0600-2300 UTC
28-01: Hourly 0000-2300 UTC. QSO's at 1529 UTC.
29-01: Hourly 0000-2300 UTC
30-01: Hourly 0000-2300 UTC
31-01: Hourly 0000-2300 UTC. Not monitored 0300-0700 UTC

6961 kHz, 28-01, 1529-1537 UTC. All stations on the same frequency.

Stations RP, KM, VM, IS. Same stations as we heard in June.

RP RP RP ?

KM KM DE VM K

RR AS AS

IS IS DE VM VM K

DE IS IS QRK 4 QSA 5 K

RR QRK 5 QSA 4 AS

RP RP RP ?

KM IS DE VM K

DE IS K

DE VM QRU QRV ? K

DE IS QSA 5 QRV K

=

AA MERCI POUR QSO

BB POUR EFFORT NUM = AR AR K

DE IS QSL QSL K

RR

DE KM KM (too weak to copy) K

RR

RP RP DE VM CELA VAUT POUR TRI AUSSI =

RP RP DE VM VM SK SK I

M51a / M51b

The FAV22 (M51a) broadcasts, transmitted simultaneously on 3881 and 6825 kHz, take place twice a day on weekdays, from 0930 to 1000 and from 1230 to 1300 UTC, and on Saturdays and Sundays from 0800 to 0830 and from 0920 to 0955 UTC.

Schedules and many lessons have changed in recent years. A 43-page update can be found at the end of the document on the N&O website <https://www.numbersoddities.nl/M51a-FAV22.pdf>

M51b: 3881//6825 kHz, 15-01, 0816 UTC, i.p.

NXMCS AQWID CVSHA KLOPI ZXASQ MVLGK OYPUI GFHDJ CSRED 16580
VXANQ .AS, ' / LMPOY CXRAE XVDRE NBFHG AWQES BCZXR BNFIR PGLRO
.?. , ' BVNDJ 25890 LAPQI WNSYD VCSDW AQLFP RHFUS BCBW NKGIR
BXCXY 54783 NXZMA ?.VA, ' YHHY CXDWE VNYEA AWQUV XVSW MBFUR
AWQLG RYUSL 14790 BAQUS .?. , + AJAUW XCSAR LDOEJ GMNRY XBSTW
DSEWX VNFJE LEPWN 65874 BXYAG ., AS?VA ASZXW CHIDE KFOLG VCRWT
CXARQ MFYRU NFNFY AEQDS 12580 NXAOL /?. /, VSWG XASZW HDJWU
LFPRO CXWRG LSHDF CXAGS MCNUI 20136 VXAID ,.AS/= BXVSH MVKDO
PLETX

YETSR AUSHQ BWJSU APLMQ BWNH ETSFZ WCQJA UWKQI NDHRT XCWJA
MQKAU 26438 BXHDY ETXCQ WNBHJ EUIKL AMPLI NWXXV SHATD WNQHA
UAYDG XWBD 45783 ZKQLA MPWNH JDUET XVCHD SNWJE SKQJA JAKSB
JAKLO NHDFE 45768 NXHDT WCDGJ NQKAI OLQUA NWJET QFAIJ LOAU
KALIU YHDKL NXCDG 35476 BWNQH AYHSK 19065 NCJRT XCSJU IKAOL
NXJDG FTEUS WNQKI ALPMQ ETDFX 46738 NCBXJ QKALO

VXBSG ZTQFA KLQMP AIKDG ETSFZ WCQHA 26718 NDGET SCWVD 35427
KLQHR BXHRT ZUSHQ WVXCD AEZYU JKOLP QMATY BCHDF XHSUJ ETSFZ
IKOLE SGAUE XVSGQ WNDXC DFEJQ LAMPW 36278 BXHDO ZJWNQ KLAUH
IORTD CGDUE SHQJZ WBSJE DHAIJ DGSKL NWJHG FVXCD FUYTI HDNXV
IKDGR FHBCV DFDFO ETSGD XHSFE ZYSUA JNWHJ SJHUI TGFHE KHFT
GHFGC VBGHY JWKSL QMLAO LUJHG VNJKL XNDHT JKILD XCSVZ KLHGF
56473 SGETF XBDGE XGSTE ZHUJ QKAI 46378 45381 SUJAU OLETD
QMLAO 26480 JDGTE XVSEF QHAJF VNDKI RUHFG CBXHD ZUJSL IKLOJ
KQUET FKCBF DHGXV CNFGC DTFGR SHJAK WLKQO MAPKI NBHTG

GDHSJ WNDHE AUJSK QQLAO NBGFV QLMAP JKDUR JSNWK EUIOK HNDTS
IKGCV 37628 AYSXG WBSUJ YHYTG DHSJQ BHDTR FJAIC WNDHC VZIJK
OLHGF 87452 XVSGR SHWUZ 10964 ETDFX CBSHA WJNHE SHGZU ALSGF
LGBCH XNBWH DSJZU AGWCD QKLAU GBXHR SJHAU YHGDV CLQIO AMLJH
YHBGR ZUJXV WNGSU 46381 BWNDU ZKQLA PLAYG BVXCD WNSHR ZJHSK
GBVCG DJSKZ WKQHJ AKLXV WCSGR ZJHSU 65953 BWNSJ AKUJH DGVXT

GDJSF WHQGF XVCHR LAHJD XJHDG QLAMO MAJKF YHDJS WBSKA UJDHS
LAPMD WJNXV DGRTS AUJDK 56287 WBCJD AJHJU 78352 WBXVC YHDGS
WBXLA PMQKU YHDKQ LAPOI BXNWJ THSUZ QHAGU JDKSI 67389 UJDHS
YHLPA WJQKA MLGHD JQKYH XVWOL YHSJE 63528 HNXJD SKZUA PMAJG
JOALK XNBWJ SJHQL MAPKI HDJRT SGDFX MQPAU 56483 GVXHS WBSJZ
IKAGH WBHDL AOKSH QMAPH WBXHR SHZYA 67382 VWBXH SJZUA QJAHG

etc etc

M51a: 3881//6825 UTC, 0930 UTC

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

JEUDI-LEÇON 14-1/1 VITESSE 840 CODÉ =
GFDTE XVWBQ ABNHU EQLQP AMLIK WNQHZ SJQHS DGRTC XVQJA JUHKD
VCGFY RHQJA KWLQO ZTDFS 35271 WNDGR JQKIL PMAIU 67349 NWJDO
YHDTX XVSFE ZHQA KJQUH NWJFG HRTYU SKLOI MQPAZ BHPAK UJDGC
45270 37658 XVCBD WNQHA JKQLA MPLIK JNDGR VXGQJ HDKRT UJFHV
BCNXH WJQKZ KALMP OIRTD FHCXV 01878 DHNCJ SKRTZ SJWNQ HNGTR
XCWVS QNBHA JQKAL MQLKO PAOQL NCHFG RTDFX WBQJH GBDJX +

JEUDI-LEÇON NUMÉRO 14-1/2 VITESSE 840 CLAIR =
DANS LES ANNÉES 1930, LES PROGRÈS CONTINUENT ET ON EST CAPABLE D'ÉMETTRE DES ONDES DÉCIMÉTRIQUES, PUIS CENTIMÉTRIQUES. L'INTÉRÊT DES LIAISONS RADIOTÉLÉPHONIQUES ENTRE LES CONTINENTS VA SE MAINTENIR JUSQU'À L'ARRIVÉE DES CABLES TÉLÉPHONIQUES SOUS-MARINS DANS LES ANNÉES 1950. EN 1935, QUATRE LIAISONS RADIOTÉLÉPHONIQUES INTERCONTINENTALES SEULEMENT SONT OUVERTE AU PUBLIC À PARTIR DE PARIS, PAR L'INTERMÉDIAIRE D'ÉMETTEURS SITUÉS À PONTOISE ET DE RÉCEPTEURS SITUÉS À NOISEAU. +

JEUDI-LEÇON 14-1/3 VITESSE 840 CODÉ =
BHC GF DUEJS QKALP MQLOI RTDHS WVXCD FSGQU JQKAO LQMNJ DBXVF
WNSJQ AUJTG HBCVD 45278 10945 SCXVN QNHJA ZUJDI QKALP MLIKH
UJHNB CGDTE SGQTA ZGWJQ AJQKL 23492 HBCGD XNWQJ SDZOL APMQJ
HGBCV KQLAO UJFGC XVDTR 45378 WBDGY 68642 DHBXJ QNJAK LWMQI
UJDOL IKHBV FGCUR SJNWK QKLAM PLATF RUDGC XVWSH QNBHJ DKJKI
XGDHS WHNDK QKAIU RTDFS XNHJD JKJHG QKLAM LPWOR DFZHW XVCHS
DUJQK YHWHH XCVSH QNBHW 23528 6YERS XCWHQ HNGTR 65473 HSJQK
JQKHN XCDGZ 352// HNCVX SJQUA JQKLP MQJBG RTDFC XVWHQ YHTRF
VXCWD QHAUJ QKALP 45739 HBCGF RTSHQ AIKDG XVWBQ ZYAJK +

JEUDI-LEÇON NUMÉRO 14-1/4 VITESSE 840 CLAIR =
LA RADIOPHONIE OUVRE DE NOUVELLES PERSPECTIVES, NOTAMMENT DANS LE DOMAINE DE LA RADIODIFFUSION. DÈS LORS QU'ELLE PEUT TRANSMETTRE LA VOIX ET LE SON, QUE CETTE VOIX ET CE SON PEUVENT ÊTRE REÇUS CONJOINTEMENT PAR DES MILLIERS D'APPAREILS, LA RADIO ENTRE DANS LA PHASE D'EXPLOITATION INDUSTRIELLE. TROIS ORGANISMES SONT, ENTRE 1921 ET 1923, À L'ORIGINE DES PREMIÈRES ÉMISSIONS DE RADIO: L'ARMÉE, LA SOCIÉTÉ PRIVÉE CSF ET LES PTT. +

CQ DE FAV22 VA

into M51b:

GBCHX WNQJZ AKOLQ PMAIJ NBCVX GSHQJ BXJTG ERZUA QIKLA PMQJK
IKHNG 23401 HBCJD SUJET ZUJQH AOLQP MQNHB WJUTF CJDGR UJDOL
QPMU DJSL S WBGCN JHDGX VGDUR HDXCV 74638 UJDGS WJNQU PMAKD
XLQUH FGCRZ SGQHA WKQJU YGHST 46329 OLDHC XBQKA UJQKL IKHNF
CVSGZ WHQYA BWHDT QJAIK QLMAP JGHDT VXHSY ZUHSQ JWNHJ KLQPM
HNDJS WVXBD QHAUJ TGDUR SJQKI 30187 HBCJF XJQKI HBWGD

etc etc

M51a: 3881//628 kHz, 15-01, 1030 UTC

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

JEUDI-LEÇON NUMÉRO 14-2/1 VITESSE 840 CODÉ =
SHQJA WNXJD QKAIL QMAPO BHJRT XVSJQ WJGDH EUZJD CNFJT SJZKA
YHDJS JQKEU DIKOZ KLZSG 36276 10984 JGDHS WJURY PEUSH ZUJDG
SHWBC XVSHE ZUJAI QKDFG HCBVJ SKRYF CBXVD 46359 UJHDI KSLOP
JHFGC GFCBX NJETD SHZUJ AJKSI QKBCV FGRYD SXKJN OHFGV 45287
HBCGF XNWJR DUJYG CVXKJ HSGZY WBZAJ KAI OF PAMJK UJBGT CVXJS

ZUJKQ 27108 HAJKR GBXJS AJSUK QKOAL PMAYH JQKZU +

JEUDI-LEÇON NUMÉRO 14-2/2 VITESSE 840 CLAIR =
AU LENDEMAIN DE LA GUERRE, LE GÉNÉRAL FERRIÉ, HUMANISTE CONVAINCU, PERÇOIT L'INTÉRÊT PRÉSENTÉ PAR LA RADIOPHONIE POUR LA DIFFUSION DE CERTAINES INFORMATIONS ET DE PROGRAMMES CULTURELS JUSQUE DANS LA VALLÉE DE LA MAURIENNE, ET BIEN SÛR DANS TOUTES LES CAMPAGNES FRANÇAISES. SA POSITION D'INSPECTEUR DES TRANSMISSIONS LUI PERMET DE METTRE AU POINT ET D'EXPÉRIMENTER DES ÉMETTEURS. +

JEUDI-LEÇON NUMÉRO 14-2/3 VITESSE 840 CODÉ
GVXHS WNQHA IKDLS MWPZY DGSHA NWJDU DGRUJ WKLSP NJWKE UJSHZ
OKHJD BXHRT 36271 IUJFG CBSJZ WHNSL KOLWM AUJDG XBCFV WHNSK
OLMQH AYHDG XVCFD BWJZU XIDKC XKJDU HNDIC VPMRY 65378 KLSGQ
WNBDBH XVCUR CIKDL PMSVR XVCHF YHFKS ZUYHS 56372 BWVDY IKDHY
XBCJS GBWJZ UJWKL JKDBV YHCIR YHXVF GBFYR DFSCZ UJVFC FVCHD
FKSLR WCXFF HNFLA PHFCT WVXHZ QJHAU 67354 BXHDY WBXHZ GFCUJ
SHRTF CJGUH 10964 GBCHS WBXUY TGDJZ 652/3 BXHSJ WKAPL PMDHV
BXGRT DFXCS JNCGV YHXJZ JWKA0 KLWUY HNCRD XVCHZ YHWJZ PLGCV
TGXLA PMWJD WFGRT CJSIZ WNXGD YHDGV 64829 IKFHC BXHDL VHDUJ
VCXGR YHSPA PKLDU LWJDY GHFUC VXYRT DGSHZ LKFHT KHDYT XVDJK +

JEUDI-LEÇON NUMÉRO 14-2/4 VITESSE 840 CLAIR =
LA RADIODIFFUSION, QUE L'ON ASSOCIE DE NOS JOURS AU TERME GÉNÉRIQUE DE "RADIO" PREND AINSI NAISSANCE À LA TOUR EIFFEL ET UTILISE DES MATÉRIELS MILITAIRES. TRÈS RAPIDEMENT, LES STATIONS MILITAIRES DE LYON-LA-DOUA ET DE BORDEAUX-LA-CROIX-D'HINS SONT ÉGALEMENT ÉQUIPÉES. LES SAPEURS DU 8ÈME GÉNIE SONT MIS À CONTRIBUTION POUR LA LECTURE DES MESSAGES DIFFUSÉS. AINSI C'EST UN MILITAIRE QUI PERMET L'AVÈNEMENT DE LA RADIO CIVILE, IL VRAI QUE LES CIRCONSTANCES TRÈS PARTICULIÈRES DE L'APRÈS-GUERRE. +

CQ DE FAV22 VA

M89 - Chinese Military

4545 kHz, 02-01, 1233 UTC, CW, i.p.

NR 8693 CK 49 63 1031 0621 RMKS 9764 TO 9532 =
NR 4732 CK 89 34 1103 0936 RMKS 9364 TO 9471 =
NR 4732 CK 99 34 1103 0936 RMKS 9364 TO 9471 =
NR 2341 CK 49 39 0509 1206 RMKS 3963 TO 4982 =
NR 2341 CK 58 39 0609 1206 RMKS 3963 TO 4982 =
NR 5001 CK 49 78 0913 0921 RMKS 7831 TO 9771 =
Note: No messages sent, only message header.

5237 kHz, 10-01, 1310 kHz, i.p.

FFF NR 028/EX 2115 = ..PQ/..CI AR QSY ...
FFF NR 028/EX 2115 = 5MPQ/5PCI AR QSY .. QSY ..
FFF NR 023/EX 2118 U.J8/G9Q AR
FFF NE 034/EX 2118/ UTJ8/.9. AR QSY 15 QSY 15
FFF NR 039/EX 2121 = F.C./ICP2 AR
FFF NR 039/EX 2121 = FFC3/.... AR
FFF NR 039/EX 2121 = LF.3/IC.3 AR QSY 16 QSY 16 QSY 16
FFF NR 041/EX 2124 = ..N5/... AR
FFF NR 041/EX 2124 = B8N5/... AR
FFF NR 041/EX 2124 = B7N5/2AR QSY 17 QSY 17 VV
FFF NR 045/EX 2128 = 8K/MJE AR
FFF NR 045/EX 2128 = MCS/1LL AR

5472 kHz, 19-01, 1314 UTC, i.p.

FF NR 1642/EX 2140 = RMKS 2544 TO 9885 = YK3/XSD9 AR
NR 2285/EX 2108 RMKS 9785 TO 2544 = C7Z9/OJA0 AR K
NR 1653 CK 75 31 0119 2030 RMKS 2544 TO 9784 = (Both on this freq)
NR 2286 CK 75 31 0119 20.. RMKS 9884 TO 2544 =

UM04 - PROMRCh

4735 kHz, 01-01, 0800 UTC No transmission	4735 kHz, 07-01, 0800 UTC VVV VVV PROMRCh = 07 01 = 1000 0950 1010 1200 1740 1200 0980 1040 1220 1770 1400 0980 1030 1190 1690 1600 0890 0940 1110 1610 1800 0600 0630 0720 1020 2000 0390 0410 0480 0620 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0600 0400 0400 0410 0470 0630 0600 0360 0380 0430 0610 0800 0580 0620 0760 1120 = ABV	4735 kHz, 08-01, 0800 UTC VVV VVV PROMRCh = 08- 01 = 1000 0950 1010 1200 1740 1200 0980 1040 1220 1770 1400 0980 1030 1190 1690 1600 0890 0940 1110 1610 1800 0600 0630 0720 1020 2000 0390 0410 0480 0620 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0600 0400 0400 0410 0470 0630 0600 0360 0380 0430 0610 0800 0580 0620 0760 1120 = ABV	4735 kHz, 09-01, 0800 UTC VVV VVV PROMRCh = 09 01 = 1000 0960 1010 1210 1750 1200 0990 1040 1230 1780 1400 0980 1030 1190 1690 1600 0900 0950 1120 1630 1800 0610 0640 0740 1040 2000 0390 0410 0480 0680 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0470 0630 0600 0360 0380 0440 0610 0800 0580 0620 0750 1110 = ABV
4735 kHz, 02-01, 0800 UTC No transmission	4735 kHz, 03-01, 0800 UTC No transmission	4735 kHz, 04-01, 0800 UTC No transmission	4735 kHz, 05-01, 0800 UTC No transmission
4735 kHz, 06-01, 0800 UTC No transmission	VVV VVV PROMRCh = 07 01 = 1000 0950 1010 1200 1740 1200 0980 1040 1220 1770 1400 0980 1030 1190 1690 1600 0890 0940 1110 1610 1800 0600 0630 0720 1020 2000 0390 0410 0480 0620 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0600 0400 0400 0410 0470 0630 0600 0360 0380 0430 0610 0800 0580 0620 0760 1120 = AR	VVV VVV PROMRCh = 08- 01 = 1000 0950 1010 1200 1740 1200 0980 1040 1220 1770 1400 0980 1030 1190 1690 1600 0890 0940 1110 1610 1800 0600 0630 0720 1020 2000 0390 0410 0480 0620 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0600 0400 0400 0410 0470 0630 0600 0360 0380 0430 0610 0800 0580 0620 0760 1120 = AR	VVV VVV PROMRCh = 09 01 = 1000 0960 1010 1210 1750 1200 0990 1040 1230 1780 1400 0980 1030 1190 1690 1600 0900 0950 1120 1630 1800 0610 0640 0740 1040 2000 0390 0410 0480 0680 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0470 0630 0600 0360 0380 0440 0610 0800 0580 0620 0750 1110 = AR
4735 kHz, 10-01, 0800 UTC VVV VVV PROMRCh = 10 01 = 1000 0960 1020 1210 1750 1200 1000 1060 1240 1800 1400 0990 1030 1200 1700 1600 0910 0960 1140 1640 1800 0620 0650 0750 1060 2000 0400 0420 0490 0690 2200 0350 0360 0410 0550 0000 0380 0390 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0470 0630 0600 0360 0380 0440 0610 0800 0580 0620 0750 1110 = ABV VVV VVV PROMRCh = 10 01 = 1000 0960 1020 1210 1750 1200 1000 1060 1240 1800 1400 0990 1030 1200 1700 1600 0910 0960 1140 1640 1800 0620 0650 0750 1060 2000 0400 0420 0490 0690 2200 0350 0360 0410 0550 0000 0380 0390 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0470 0630 0600 0360 0380 0440 0610 0800 0580 0620 0750 1110 = AR	4735 kHz, 11-01, 0800 UTC VVV VVV PROMRCh = 11 01 = 1000 0970 1030 1210 1760 1200 1000 1060 1240 14 EEEEE 6 1200 1000 1060 1240 1790 1400 0990 1040 1210 1710 1600 0920 0970 1140 1650 1800 0620 0660 0760 1070 2000 0380 0410 0490 0690 2200 0340 0350 0410 0550 0000 0380 0390 0430 0580 0200 0400 0410 0460 0610 0400 0400 0420 0470 0640 0600 0360 0380 0440 0620 0800 0580 0620 0750 1110 = ABV VVV VVV PROMRCh = 11 01 = 1000 0970 1030 1210 1760 1200 1000 16 EEEEE = 1200 1000 1060 1240 1790 1400 0990 1040 1210 1710 1600 0920 0970 1140 1650 1800 0620 0660 0760 1070 2000 0380 0410 0490 0690 2200 0340 0350 0410 0550 0000 0380 0390 0430 0580 0200 0400 0410 0460 0610 0400 0400 0420 0470 0640 0600 0360 0380 0440 0620 0800 0580 0620 0750 1110 060E 0360 08 EEEEE = 0600 0360 0380 0440 0620 0800 0580 0620 0750 1110 = AR	4735 kHz, 12-01, 0800 UTC VVV VVV PROMRCh = 12 01 = 1000 0960 1020 1210 1750 1200 1000 1060 1250 1800 1400 0990 1040 1210 1700 1600 0920 0920 1150 1660 1800 0630 0660 0760 1070 2000 0400 0410 0490 0690 2200 0350 0360 0410 0560 0000 0380 0390 0430 0580 0200 0400 0410 0060 0610 0400 0400 0420 0470 0630 0600 0370 0380 0440 0620 0800 0570 0610 0750 1100 = ABV VVV VVV PROMRCh = 12 01 = 1000 0960 1020 1210 1750 1200 1000 1060 1250 1800 1400 0990 1040 1210 1700 1600 0920 0920 1150 1660 1800 0630 0660 0760 1070 2000 0400 0410 0490 0690 2200 0350 0360 0410 0560 0000 0380 0390 0430 0580 0200 0400 0410 0060 0610 0400 0400 0420 0470 0630 0600 0370 0380 0440 0620 0800 0570 0610 0750 1100 = AR	4735 kHz, 13-01, 0800 UTC VVV VVV PROMRCh = 13 01 = 1000 0910 0970 1160 1700 1200 0950 1010 1200 1750 1400 0940 0990 1150 1660 1600 0890 0940 1120 1620 1800 0620 0650 0750 1070 2000 0390 0400 0480 0680 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0460 0630 0600 0360 0370 0430 0600 0800 0560 0610 0740 1090 = ABV VVV VVV PROMRCh = 13 01 = 1000 0910 0970 1160 1700 1200 0950 1010 1200 1750 1400 0940 0990 1150 1660 1600 0890 0940 1120 1620 1800 0620 0650 0750 1070 2000 0390 0400 0480 0680 2200 0340 0350 0400 0550 0000 0370 0380 0430 0580 0200 0390 0400 0450 0610 0400 0400 0410 0460 0630 0600 0360 0370 0430 0600 0800 0560 0610 0740 1090 = AR

4735 kHz, 14-01, 0759 UTC

VVV VVV PROMRCh = 14 01 =
 1000 0960 1010 1200 1680
 1200 0990 1050 1230 1730
 1400 0970 1010 1180 1640
 1600 0910 0960 1140 1600
 1800 0640 0670 0780 1100
 2000 0390 0410 0490 0670
 2200 0350 0360 0410 0550
 0000 0380 0390 0430 0580
 0200 0400 0410 0460 0610
 0400 0400 0410 0470 0620
 0600 0360 0380 0440 0600
 0800 0570 0610 0740 1080
 = ABV
 VVV VVV PROMRCh = 14 01 =
 1000 0960 1010 1200 1680
 1200 0990 1050 1230 1730
 1400 0970 1010 1180 1640
 1600 0910 0960 1140 1600
 1800 0640 0670 0780 1100
 2000 0390 0410 0490 0670
 2200 0350 0360 0410 0550
 0000 0380 0390 0430 0580
 0200 0400 0410 0460 0610
 0400 0400 0410 0470 0620
 0600 0360 0380 0440 0600
 0800 0570 0610 0740 1080
 = AR

4735 kHz, 20-01, 0800 UTC

VVV VVV PROMRCh = 20 01 =
 1000 0910 0970 1150 1670
 1200 0950 1000 1190 1730
 1400 0910 0960 1130 1510
 1600 0860 0920 1090 1580
 1800 0620 0650 0750 0070
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0370 0380 0430 0580
 0200 0380 0390 0450 0600
 0400 0380 0400 0450 0610
 0600 0340 0360 0420 0580
 0800 0540 0580 0700 1040
 = ABV
 VVV VVV PROMRCh = 20 01 =
 1000 0910 0970 1150 1670
 1200 0950 1000 1190 1730
 1400 0910 0960 1130 1510
 1600 0860 0920 1090 1580
 1800 0620 0650 0750 0070
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0370 0380 0430 0580
 0200 0380 0390 0450 0600
 0400 0380 0400 0450 0610
 0600 0340 0360 0420 0580
 0800 0540 0580 0700 1040
 = AR

4735 kHz, 15-01, 0800 UTC

VVV VVV PROMRCh = 15 01 =
 1000 0950 1000 1190 1730
 1200 0980 1040 1220 1770
 1400 0960 1000 1160 1660
 1600 0900 0950 1130 1630
 1800 0630 0660 0760 1070
 2000 0390 0410 0480 0680
 2200 0350 0350 0410 0550
 0000 0370 0380 0430 0580
 0200 0390 0400 0460 0610
 0400 0400 0410 0460 0620
 0600 0360 0380 0430 0600
 0800 0560 0600 0730 1090
 = ABV
 VVV VVV PROMRCh = 15 01 =
 1000 0950 1000 1190 1730
 1200 0980 1040 1220 1770
 1400 0960 1000 1160 1660
 1600 0900 0950 1130 1630
 1800 0630 0660 0760 1070
 2000 0390 0410 0480 0680
 2200 0350 0350 0410 0550
 0000 0370 0380 0430 0580
 0200 0390 0400 0460 0610
 0400 0400 0410 0460 0620
 0600 0360 0380 0430 0600
 0800 0560 0600 0730 1090
 = AR

4735 kHz, 21-01, 0800 UTC

VVV VVV PROMRCh = 21 01 =
 1000 0900 0960 1140 1660
 1200 0940 1000 1180 1720
 1400 0900 0950 1110 1600
 1600 0860 0910 1080 1570
 1800 0610 0640 0740 1050
 2000 0380 0400 0470 0670
 2200 0340 0350 0410 0550
 0000 0370 0380 0430 0580
 0200 0380 0390 0440 0600
 0400 0380 0390 0450 0610
 0600 0340 0360 0410 0580
 0800 0530 0570 0690 1030
 = ABV
 VVV VVV PROMRCh = 21 01 =
 1000 0900 0960 1140 1660
 1200 0940 1000 1180 1720
 1400 0900 0950 1110 1600
 1600 0860 0910 1080 1570
 1800 0610 0640 0740 1050
 2000 0380 0400 0470 0670
 2200 0340 0350 0410 0550
 0000 0370 0380 0430 0580
 0200 0380 0390 0440 0600
 0400 0380 0390 0450 0610
 0600 0340 0360 0410 0580
 0800 0530 0570 0690 1030
 = AR

4735 kHz, 16-01, 0800 UTC

No transmission

4735 kHz, 17-01, 0800 UTC

No transmission

4735 kHz, 18-01, 0800 UTC

Not monitored

4735 kHz, 19-01, 0800 UTC

VVV VVV PROMRCh = 19 01 =
 1000 0910 0970 1150
 1200 0950 1010 1190 1730
 1400 0920 0960 1130 1620
 1600 0870 0920 1090 0580
 1800 0620 0650 0760 1070
 2000 0380 0400 0480 0680
 2200 0340 0350 0410 0560
 0000 0370 0380 0430 0580
 0200 0390 0400 0450 0600
 0400 0390 0400 0450 0610
 0600 0350 0360 0420 0590
 0800 0540 0580 0710 1050
 = ABV
 VVV VVV PROMRCh = 19 01 =
 1000 0910 0970 1150
 1200 0950 1010 1190 1730
 1400 0920 0960 1130 1620
 1600 0870 0920 1090 0580
 1800 0620 0650 0760 1070
 2000 0380 0400 0480 0680
 2200 0340 0350 0410 0560
 0000 0370 0380 0430 0580
 0200 0390 0400 0450 0600
 0400 0390 0400 0450 0610
 0600 0350 0360 0420 0590
 0800 0540 0580 0710 1050
 = AR

4735 kHz, 22-01, 0800 UTC

No transmission

4735 kHz, 24-01, 0800 UTC

VVV VVV PROMRCh = 24 01 =
 1000 0890 0950 1130 1640
 1200 0950 1000 1180 1720
 1400 0900 0950 1120 1600
 1600 0850 0910 1070 1560
 1800 0600 0630 0730 1040
 2000 0370 0390 0460 0660
 2200 0300 0340 0390 0540
 0000 0360 0370 0420 0560
 0200 0360 0380 0430 0580
 0400 0360 0370 0420 0580
 0600 0320 0340 0390 0550
 0800 0520 0560 0690 1020
 = ABV
 VVV VVV PROMRCh = 24 01 =
 1000 0890 0950 1130 1640
 1200 0950 1000 1180 1720
 1400 0900 0950 1120 1600
 1600 0850 0910 1070 1560
 1800 0600 0630 0730 1040
 2000 0370 0390 0460 0660
 2200 0300 0340 0390 0540
 0000 0360 0370 0420 0560
 0200 0360 0380 0430 0580
 0400 0360 0370 0420 0580
 0600 0320 0340 0390 0550
 0800 0520 0560 0690 1020
 = AR

4735 kHz, 25-01, 0800 UTC

VVV VVV PROMRCh = 25 01 =
 1000 0890 0940 1130 1640
 1200 0960 1010 1190 1740
 1400 0910 0960 1120 1600
 1600 0860 0910 1080 1570
 1800 0600 0630 0740 1040
 2000 0370 0390 0460 0660
 2200 0330 0340 0400 0540
 0000 0360 0370 0420 0560
 0200 0360 0370 0420 0580
 0400 0360 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0520 0560 0690 1020
 = ABV =
 VVV VVV PROMRCh = 25 01 =
 1000 0890 0940 1130 1640
 1200 0960 1010 1190 1740
 1400 0910 0960 1120 1600
 1600 0860 0910 1080 1570
 1800 0600 0630 0740 1040
 2000 0370 0390 0460 0660
 2200 0330 0340 0400 0540
 0000 0360 0370 0420 0560
 0200 0360 0370 0420 0580
 0400 0360 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0520 0560 0690 1020
 = AR

4735 kHz, 26-01, 0800 UTC

VVV VVV PROMRCh = 26 01 =
 1000 0890 0940 1130 1640
 1200 0950 1010 1200 1730
 1400 0910 0960 1120 1600
 1600 0860 0910 1080 1570
 1800 0590 0620 0730 1030
 2000 0370 0390 0460 0660
 2200 0330 0340 0400 0540
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0520 0560 0690 1030
 = ABV
 VVV VVV PROMRCh = 26 01 =
 1000 0890 0940 1130 1640
 1200 0950 1010 1200 1730
 1400 0910 0960 1120 1600
 1600 0860 0910 1080 1570
 1800 0590 0620 0730 1030
 2000 0370 0390 0460 0660
 2200 0330 0340 0400 0540
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0520 0560 0690 1030
 = AR

4735 kHz, 27-01, 0758 UTC

VVV VVV PROMRCh = 27 01 =
 1000 0890 0940 1120 1640
 1200 0960 1000 1200 1740
 1400 0920 0960 1130 1620
 1600 0860 0910 1090 1580
 1800 0600 0630 0740 1040
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0360 0420 0570
 0600 0310 0330 0380 0540
 0800 0520 0560 0690 1030
 = ABV
 VVV VVV PROMRCh = 27 01 =
 1000 0890 0940 1120 1640
 1200 0960 1000 1200 1740
 1400 0920 0960 1130 1620
 1600 0860 0910 1090 1580
 1800 0600 0630 0740 1040
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0360 0420 0570
 0600 0310 0330 0380 0540
 0800 0520 0560 0690 1030
 = AR

4735 kHz, 28-01, 0800 UTC

VVV VVV PROMRCh = 28 01 =
 1000 0890 0940 1120 1650
 1200 0970 1020 1210 1750
 1400 0930 0980 1150 1640
 1600 0870 0920 1090 1580
 1800 0610 0640 0750 1100
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0360 0420 0570
 0600 0310 0330 0380 0540
 0800 0530 0570 0690 1020
 = ABV
 VVV VVV PROMRCh = 28 01 =
 1000 0890 0940 1120 1650
 1200 0970 1020 1210 1750
 1400 0930 0980 1150 1640
 1600 0870 0920 1090 1580
 1800 0610 0640 0750 1100
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0360 0420 0570
 0600 0310 0330 0380 0540
 0800 0530 0570 0690 1020
 = AR

4735 kHz, 29-01, 0800 UTC

VVV VVV PROMRCh = 29 01 =
 1000 0900 0950 1130 1650
 1200 0970 1020 1210 1750
 1400 0930 0980 1150 1630
 1600 0880 0930 1100 1600
 1800 0610 0640 0750 1060
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0530 0570 0700 1040
 = ABV =
 VVV VVV PROMRCh = 29 01 =
 1000 0900 0950 1130 1650
 1200 0970 1020 1210 1750
 1400 0930 0980 1150 1630
 1600 0880 0930 1100 1600
 1800 0610 0640 0750 1060
 2000 0380 0400 0470 0670
 2200 0340 0350 0400 0550
 0000 0360 0370 0420 0570
 0200 0360 0370 0420 0580
 0400 0350 0370 0420 0580
 0600 0320 0330 0390 0550
 0800 0530 0570 0700 1040
 = AR

4735 kHz, 30-01, 0800 UTC

VVV VVV PROMRCh = 30 01 =
 1000 0970 1020 1210 1740
 1200 1030 1080 1270 1820
 1400 0980 1030 1190 1690
 1600 0920 0980 1150 1650
 1800 0640 0670 0780 1100
 2000 0400 0420 0490 0700
 2200 0360 0370 0420 0570
 0000 0370 0380 0430 0580
 0200 0370 0380 0430 0590
 0400 0360 0370 0430 0580
 0600 0320 0340 0390 0550
 0800 0550 0580 0710 1050
 = ABV
 VVV VVV PROMRCh = 30 01 =
 1000 0970 1020 1210 1740
 1200 1030 1080 1270 1820
 1400 0980 1030 1190 1690
 1600 0920 0980 1150 1650
 1800 0640 0670 0780 1100
 2000 0400 0420 0490 0700
 2200 0360 0370 0420 0570
 0000 0370 0380 0430 0580
 0200 0370 0380 0430 0590
 0400 0360 0370 0430 0580
 0600 0320 0340 0390 0550
 0800 0550 0580 0710 1050
 = AR

4735 kHz, 31-01, 0800 UTC

VVV VVV PROMRCh = 30 01 =
 1000 0920 0970 1150 1680
 1200 0990 1040 1230 1770
 1400 0950 0990 1160 1650
 1600 0890 0950 1140 1620
 1800 0630 0960 0870 1080
 2000 0390 0410 0530 0690
 2200 0350 0360 0410 0560
 0000 0370 0380 0430 0580
 0200 0360 0370 0430 0580
 0400 0360 0370 0420 0580
 0600 0320 0340 0390 0550
 0800 0540 0680 0710 1050
 = ABV
 VVV VVV PROMRCh = 30 01 =
 1000 0920 0970 1150 1680
 1200 0990 1040 1230 1770
 1400 0950 0990 1160 1650
 1600 0890 0950 1140 1620
 1800 0630 0960 0870 1080
 2000 0390 0410 0530 0690
 2200 0350 0360 0410 0560
 0000 0370 0380 0430 0580
 0200 0360 0370 0430 0580
 0400 0360 0370 0420 0580
 0600 0320 0340 0390 0550
 0800 0540 0680 0710 1050
 = AR

UM10 - 10-minutes net

UM10 schedules January 2026, found by JP.

3531//4310 kHz, 01-01, 1941 UTC JZZN (1940-1950z)

3250 kHz, 01-01, 1939 UTC VI4T (1940-1950z)

3326/4112 kHz, 02-01	U34D (1150-1200z)
3326/4112 kHz, 05-01	U34D (1820-1830z)
3326/4112 kHz, 08-01	U34D (1750-1800z)
3326/4112 kHz, 12-01	U34D (1820-1830z)
3326/4112 kHz, 18-01	U34D (1820-1830z)
3326/4112 kHz, 22-01	U34D (1650-1700z)

3718//3210 kHz, 02-01	7CJK (1810-1820z)
3718//3210 kHz, 05-01	7CJK (1810-1820z)
3718//3210 kHz, 08-01	7CJK (1740-1750z)
3718//3210 kHz, 09-01	7CJK (1740-1750z)



DIGITAL MODES

F01

6957 kHz, 16-01, 0810 UTC. Interruptions in the signal

70237 92481 58046 53298 70351 02780 41674 49600 30089 29609
01564 03083 94130 65281 18892 92645 97088 58432 89631 37196
03693 58660 66541 99330 95940 96041 75466 60594 18158 50190
79396 35516 15911 88559 88709 16595 29698 78663 41055 67435
29373 03918 99290 06212 00218 37781 40932 46654 16620 55879
37544 88739 64283 90809 47501 76282 96912 59310 70579 63595
38305 16474 37788 58436 65790 16707 34899 33397 35962 86107
83108 22947 38622 35965 25259 48303 89888 72052 91066 37323
00410 79408 39794 31600 79597 87303 03794 97960 61848 44056
81380 86534 65662 56412 52441 02605 21623 73151 15253 84403
30148 17631 67919 04062 34973 98932 82874 33886 23290 56314
47896 45157 88486 16655 72052 31633 16421 69564 80035 74948
81163 89867 43304 94097 61157 62131 21488 46185 11717 86935
12475 70629 54821 73563 34636 94021 72124 48812 89606 37803
12125 36600 79084 95975 47439 88063 74054 75007 43100 66827
59904 13142 21841 19143 05852 21282 37276 83570 32123 12650
90940 19910 73330 13399 54109 62045 61468 71376 80337 24411
76985 05207 19665 16756 41357 60908 70419 46896 49595 68206
29546 16143 66143 13750 27421 37095 32585 73396 58070 28482
60605 70785 40730 66742 08646 54351 73704 99032 65689 09992
66436 47348 90603 51563 60741 58438 80502 56397 77140 79222
66533 38025 47229 62369 60555 73292 18010 31749 01128 26065
39151 62428 72252 34692 69079 54909 93312 55437 60859 08293
03635 79045 13807 22054 90117 62652 01747 81117 31372 44199
13882 03928 56791 31568 69184 58182 44008 83604 90274 73942
03168 25222 47696 08787 21448 63781 10546 44702 66282 98918
64390 21405 70702 43027 82397 35772 49246 94564 60639 62077
17880 31381 53480 76273 00000 +++++

11079/9162/7509 kHz, 01-01, 1015/1025/1035 UTC

66769 62278 40259 18311 04117 09937 43241 56957 17492 84835
 94464 79837 81249 28056 20901 04607 72614 45418 25158 86848
 57267 79174 62711 00021 78489 42609 19071 79177 41305 58782
 95139 20646 86020 23425 94669 54845 14674 29486 11504 34441
 03753 00198 40779 05018 05665 95040 42089 50458 44390 22049
 00000

62998 28093 85649 66544 25364 59625 99134 99727 53117 73087
 67584 58587 94075 84021 25906 60485 06056 56777 47198 20826
 08698 32391 25877 60123 49054 52308 05035 23210 73145 49886
 52730 06701 20657 26626 20188 7=244 84964 31078 13499 06285
 05684 65293 27816 44760 85922 72885 33215 86185 51433 23507
 57425 41547 93841 33760 50809 74454 65148 08446 36384 69976
 15687 99109 46259 35620 92725 65799 74200 82861 41901 52984
 98983 62688 78674 15581 58245 53581 21991 56000 77499 25377
 07332 58180 84026 27443 21360 52292 60309 74612 25320 86671
 16709 29302 59402 46093 88060 03269 45257 05363 83892 27427
 28829 23101 00000 +++++ +++++

11079/9162/7509 kHz, 02-01, 1015/1025/1035 UTC

00000 +++++ +++++

11079/9162/7509 kHz, 05-01, 1015/1025/1035 UTC

04027 81101 41599 83787 38671 84962 61661 25695 45140 46802
 42452 08220 53644 83860 76103 96684 89110 87341 26521 25051
 68485 52706 99594 40711 93460 87013 98660 75556 74532 73000
 63655 35491 47360 94592 17398 25603 67330 53518 67438 53156
 93303 31735 36916 75609 96433 79335 22847 85839 55043 32630
 05304 51758 21460 92100 55902 52512 71766 14895 19044 78453
 74398 01563 64357 87066 38526 81722 33756 32036 28161 28335
 31572 07655 52920 55283 31189 75742 71389 77931 96620 67275
 68022 32391 25877 60123 89508 46027 80666 85606 51558 25305
 52730 06701 20657 54991 69574 62092 84964 31078 13499 06285
 05684 65293 52780 70281 66947 19728 74186 40684 51433 23507
 57425 33411 27644 99051 50809 74454 65148 08446 36384 69976
 76574 24433 92657 68308 93548 51391 07321 88145 61185 52984
 98983 62688 78674 15581 58245 92440 29903 85165 03884 47817
 35723 85818 08026 27443 85069 98967 90690 60468 40310 94884
 72630 50977 42115 76281 71839 60026 45257 05363 83892 13113
 44997 89806 25486 10502 35973 26853 31607 95846 87869 69502
 47319 19833 00467 23474 10769 10219 30181 42232 48804 31096
 49212 95554 43516 76687 95043 02663 11679 94965 45543 09579
 12774 05196 81280 15415 98690 23428 40596 77276 56974 72530
 38490 48460 20594 24737 48110 29647 42634 68897 05778 37767
 59385 19631 25482 22230 93023 21556 33784 83204 47805 38789
 61072 71634 56825 52907 50103 75685 05070 01546 67758 23304
 74915 84832 30972 55570 28871 75847 82742 50548 47568 04276
 71919 40230 93615 19697 43601 84811 99778 75079 08324 55345
 04915 02470 50595 77197 86090 65073 33091 26661 60334 10907
 85221 91225 44594 24507 66083 82178 66378 31795 35015 26940
 61372 91138 20678 60406 61733 19319 74612 76011 73218 63070
 02021 51439 96765 42294 33047 08434 48899 70831 13437 90595
 19258 12876 37307 90209 78699 17220 96156 77443 16402 96521
 62143 32392 04407 43781 39199 44419 13045 03203 86120 71354
 25675 37650 22570 13241 26177 59862 53921 80322 57640 19634
 75892 59955 75674 64131 44903 12138 44793 13550 25086 48334
 51295 19284 47904 73288 31093 96808 45294 94521 35917 50452
 42292 29178 86334 32253 20063 62937 85030 02085 85276 40652
 88766 81241 06776 93421 62483 16662 05459 31770 63957 97987
 08328 59633 32471 94648 02635 88827 79914 05141 51059 58699

07778 35714 53858 90632 98448 50627 68932 32114 54271 61187
25734 70027 82794 45732 93963 17886 51644 17770 92983 06662
61474 84438 52900 33936 10405 62496 63240 51017 48417 44011
70154 92750 45119 28947 08111 79679 19328 66833 76978 47271
03908 74704 00478 81863 44300 23493 26897 68051 54180 10070
58052 24421 00000 +++++ +++++ +++++

11079/9162/7509 kHz, 06-01, 1015/1025/1035 UTC

80280 65507 85369 41611 74015 49664 09246 04885 51934 57451
91394 92934 84854 16177 09447 74357 92985 87990 54690 83300
10615 37088 86848 87108 93091 08343 45988 39611 52017 47053
69996 62245 29612 14483 91055 20195 48166 78900 09565 85745
95535 86788 68937 06020 32606 43911 79717 17305 33665 60943
66448 73149 95626 43332 35731 78412 77039 30083 88914 46460
52815 11162 27855 21694 95620 78195 27168 34598 19865 88163
71435 25071 00000

97192 33383 85217 12683 85945 29221 41846 68487 55522 66098
52378 57630 12451 50864 97025 86028 85612 99374 87367 48073
04451 21325 59261 34943 59319 15730 18981 09046 92396 19229
53516 99242 92596 74419 40963 96572 92928 10391 21953 55154
93734 52652 18059 27939 60240 04650 08104 92025 67861 68044
98321 43211 93699 93955 47304 64464 77674 82338 31666 98016
01712 71705 63373 75746 60441 86357 94671 87563 21839 33328
71542 92456 01238 66219 21641 01914 97166 58121 87634 90389
62438 50798 41900 12509 08923 72336 43495 31700 69463 40432
23359 89940 65342 93515 08670 73299 52767 16889 22307 52976
46785 56077 18337 06505 46083 34572 39479 48831 07104 18152
07483 27931 40913 92983 82349 64694 31261 49668 51338 41667
97270 90438 33696 26123 00000 +++++ +++++

11079/9162/7509 kHz, 07-01, 1015/1025/1035 UTC

66186 23110 15912 42839 27052 95913 03867 10008 38453 23578
59837 99893 46937 05709 91209 71179 29681 22014 40634 32700
83767 97430 05432 09209 98761 83762 39509 19742 92273 56250
29999 29513 13206 48535 65773 61288 42351 74423 40058 77163
45051 09912 54305 66695 55588 33908 15524 02315 98003 51074
44263 47963 73034 45235 35413 31887 65840 36803 39043 19538
54229 42623 53431 47494 22055 61719 47494 04369 07473 35343
54806 69620 40759 54777 06375 46211 51350 15340 94381 48056
48828 40005 84066 28184 07502 21099 15943 58573 09302 53496
65533 97569 24652 57759 52810 05856 36031 16654 18534 96873
33879 73485 09672 32680 39576 65683 41083 01127 35139 92082
25669 35344 04359 37331 90159 61437 15040 01864 18736 85347
97053 10881 91671 54803 95864 00768 11181 57320 06245 06393
31663 40159 15845 97724 36525 63204 13318 39198 28779 20685
40683 70275 27588 92681 94611 30637 87970 12359 06330 78436
85822 59854 54816 75058 35464 18765 93000 34820 31901 56173
91620 63053 34966 12142 30457 30998 37554 09620 91610 60953
85122 20696 34523 20121 38651 50136 57419 46571 98238 22148
74864 55785 29542 81300 66123 01192 60229 43542 74007 87150
38639 58260 58894 57814 71837 67301 37615 10305 85253 71914
61892 05646 71090 43529 16011 75885 17684 39334 38421 50844
37016 08565 96949 52941 32550 00455 72318 33507 74596 09790
29643 49055 75376 20993 82612 00918 80985 36681 80032 86707
22436 01637 69415 37032 92967 58118 17313 35895 43825 93468
91072 48229 15667 65933 31705 02997 47811 19648 72560 05294
32509 24720 83480 75892 06409 03342 45138 41667 96433 27886
83234 25330 62222 01901 17244 07932 02354 59959 03407 62541
16526 47291 76640 82560 40869 65140 21062 53108 98605 92776
23819 38902 33222 22110 91903 87085 16343 65842 36644 68429
47513 25083 55556 05360 88047 27381 66253 60227 96160 71108
72083 82275 55548 37119 64205 36737 14612 53634 89762 64493

78524 25294 40877 45746 21303 62300 44110 66115 10098 70591
55115 08635 58870 89001 88150 20047 53660 84316 35133 24864
16612 40189 53946 85613 00968 00830 30658 32718 34199 55426
45365 12434 51471 74222 96329 26301 86633 32191 62107 60531
12905 81248 06351 28774 50464 56935 54978 76701 83119 30507
00386 21848 51244 42382 12410 27133 13174 77864 60703 31528
92242 71089 78236 86272 51662 48140 20585 70106 64405 45248
00719 81940 70309 63036 03962 34401 37566 42738 12814 96699
70799 75314 96323 60249 32908 79434 43702 25475 72866 09227
46860 33252 76672 27403 00000 +++++ +++++ +++++

11079/9162/7509 kHz, 08-01, 1015/1025/1035 UTC

80040 77619 08201 45639 36100 32699 01919 28012 27721 43780
93212 18884 28997 59241 88489 47923 51424 27362 58131 86934
28516 63142 89319 07740 73948 82791 77241 31952 99183 35585
03110 14834 01499 87768 72440 30419 58365 38198 12016 50097
89112 70413 48981 31843 69816 70820 20511 62272 12342 67668
87466 18723 43492 70529 50509 43541 45183 14941 92086 47759
41600 41915 92729 86360 44255 67006 95114 72311 90903 18601
14310 21548 39230 50154 17650 46113 01278 56018 22681 37617
29513 45588 86606 08230 90513 28085 00000

35313 51700 73332 24763 45089 24705 48379 98064 44804 03674
16974 68699 30702 68968 83310 03894 45247 39522 50131 32775
86092 38740 85123 22069 03346 74547 89901 64788 61764 44147
92535 86605 91335 80661 49542 99575 74678 83871 68294 57920
44687 02213 85772 95541 90876 58237 64606 49972 97852 34709
92330 02429 64346 63546 94815 88668 76258 84769 99776 60341
32138 67664 11336 01506 44545 11339 81547 30021 65729 66857
89830 38476 11061 48149 66261 54369 78649 23875 19639 24207
88601 07430 56276 51218 90336 87289 00458 41368 11408 64867
52487 37359 46265 92080 45274 45313 08402 25818 85388 83810
94306 29101 00000 +++++ +++++

11079/9162/7509 kHz, 09-01, 1015/1025/1035 UTC

00000 +++++ +++++

11079/9162/7509 kHz, 12-01, 1015/1025/1035 UTC

87079 33225 01583 80860 36406 93422 17551 71442 22197 82797
46506 26536 48766 68698 29084 43730 51095 36262 17099 87840
56957 17791 14242 63128 91725 35530 83658 19976 55535 06245
64626 06985 27502 81063 65487 04417 76681 19000 25045 99916
84445 17618 59604 92468 07981 49251 37844 35495 39583 76233
50706 55072 41443 43570 68496 04170 60601 72480 02377 38860
53776 03270 12438 27452 76735 60944 29548 28456 17910 42024
83150 98344 80928 45977 52213 15034 45770 99731 81502 28020
63219 48682 30385 71121 62301 12639 46331 98750 75399 30161
80310 31656 10738 39699 86278 23087 26907 71001 71925 81287
89133 45197 92880 09291 11976 07024 07571 47931 18130 37610
34900 33012 68035 21271 81954 02578 39979 64732 33914 15219
65357 92249 23356 65345 48821 65033 21147 06378 27955 98427
16094 17781 52205 75284 75561 76883 85730 78966 04232 21421
63864 94416 43191 13739 57877 50724 76543 42593 27735 03646
37727 23484 67522 81490 32722 83468 73236 42835 22352 41374
87630 19481 30840 19371 01790 43113 72830 46814 18147 79080
16059 42328 04593 15744 21842 85033 94402 82832 30597 10881
11643 97237 84564 95018 26756 59686 04931 06131 72010 50727
65517 43690 71497 99481 30263 94050 65366 23575 46639 66336
32991 63699 12231 94038 44746 61247 56630 13289 97080 52446
05868 53718 10585 77431 21535 02857 95731 27703 31813 30001
15981 80397 96577 80499 02933 92811 73774 76381 03224 55620
79250 84264 61844 28222 57236 36500 71569 04647 03649 16463
43195 83479 09426 43946 76258 40209 16056 21596 34934 25471

00517 28307 58795 37596 31780 70541 63125 42916 66098 27481
08467 42267 73240 50979 44096 07108 10878 06225 55117 33722
89300 64072 67841 88906 93649 80964 93173 45617 55861 27395
12663 31982 93500 50843 36918 42133 57685 84114 91076 82302
57271 35034 07009 50590 51496 18420 26954 73881 28271 16287
48258 50316 10303 77200 63926 70768 56234 90738 78651 17766
48993 97977 05029 65289 88534 23964 69623 27886 31166 43084
83600 32539 42643 13286 57580 11731 57218 40091 65433 41127
59842 56321 86674 70335 33683 28491 82170 20165 40183 25795
82826 44825 23810 12628 95953 82510 58702 50587 58999 42789
79406 20873 95322 04261 62874 03044 51720 20893 53922 71057
22364 60493 51330 92527 88859 23748 96782 42151 31107 17259
33816 65222 88645 79029 28981 52193 77175 79823 72400 10192
89944 48843 99904 42470 38684 97159 03940 71679 13783 37339
25431 67947 68388 22690 43789 67666 56118 54584 07257 93948
77080 31278 70761 14674 11867 36676 33487 30407 00000 +++++
+++++

11079/9162/7509 kHz, 13-01, 1015/1025/1035 UTC

56883 97620 24433 94465 51173 25856 72105 78111 59771 40505
02761 14036 30656 41395 90213 19726 68337 11399 25463 08361
04602 13915 22841 13291 89666 92395 36409 63786 39688 51622
85052 04248 01549 25388 09701 74057 20865 60315 11110 90264
24165 70458 41661 00288 51154 42403 49585 96825 98016 95536
99078 12165 57702 27183 14731 34063 68101 97291 23702 10411
04090 32360 94098 34844 74344 53283 92974 30499 08885 56821
12402 74108 48279 05360 37036 27607 70444 04663 51636 69453
15978 31081 00000

96964 17642 93677 16723 69366 60006 77108 41043 72394 10307
44556 58697 66151 23626 19263 00028 48033 90331 45033 18905
36582 24107 70144 31000 56613 56330 62984 10751 17799 97737
64123 70462 03893 53310 04499 69960 14794 01320 44392 30266
28621 72475 12906 49697 76001 90099 52608 45854 43747 57283
99044 71927 50125 01947 49797 80749 58882 15748 02787 35043
24235 47782 68497 87299 84007 38994 85814 77721 43094 08261
96164 23670 14441 26064 55641 99049 09747 36701 89811 27083
97041 14969 20883 34887 67360 68260 21916 43315 77676 19999
77784 32091 00000 +++++ +++++ +++++

11079/9162/7509 kHz, 14-01, 1015/1025/1035 UTC

26218 24307 06856 96165 30731 94655 49765 27759 80103 29294
15639 89599 96862 76966 03750 30750 64883 24794 63444 41675
30113 45653 49805 26278 29520 86672 84873 01771 59206 53526
97877 93570 17611 70221 42904 17391 84751 19052 17444 65743
23442 90428 30257 41002 13415 97247 91995 02260 54294 33506
27011 18119 98355 81836 29791 42644 99000 99660 14471 56638
85902 38640 30840 41441 02743 77117 45289 77430 68483 70230
10149 84426 48113 47393 69826 46169 43806 11827 77213 86070
42420 21823 18773 86421 80288 58444 71760 68244 11234 09328
42013 73979 88736 23294 55738 20186 98202 15443 03746 12453
00275 27427 61560 39707 71099 72588 33848 90098 50525 20641
96598 55657 34129 01597 35497 17909 70040 33618 03925 31632
46483 04479 49030 48948 80977 61331 79299 50935 47144 88455
72068 78940 00034 77691 44419 82792 85941 21227 35883 28099
47622 81442 76408 29806 60855 17493 38009 04219 63301 73312
93554 56670 61570 56734 31114 47011 27458 64412 97311 00133
19281 32230 68118 53686 89235 15883 70530 60203 62746 31332
03557 85793 00710 09795 31961 72615 80595 46990 51200 57303
57326 51294 46988 62537 89882 20524 97922 03947 44572 02006
94625 79533 10889 15648 73814 33799 90911 44676 90760 13774
48179 23742 78554 59117 26963 79075 67640 93498 77906 00378
64023 09425 50929 49144 09622 63722 41368 33092 73173 25846

00275 01395 45156 46204 44808 40407 35143 36698 29661 74555
95037 80649 65470 02107 16628 14319 95120 20472 76890 47178
63909 20760 29493 13158 44490 56253 65915 70028 02539 14494
94646 89113 14087 47675 11879 02527 70440 41016 62149 00114
31643 23821 12355 93289 14414 52888 87586 87956 25482 22987
42220 33691 76287 84052 64687 41392 39949 69827 39394 86569
36468 67599 14186 40465 57089 83753 46831 96192 63749 84797
28941 82091 24580 18582 10765 79464 71363 45363 75307 86903
89910 33433 35197 98386 79285 98981 50746 87328 40809 94881
92641 13774 82792 78089 97696 96929 51925 10350 91115 20209
27264 71885 73691 60988 37756 92761 97385 62257 89236 31616
77726 88345 11832 56438 16455 31927 63712 07090 32872 64478
52138 44247 27306 47380 57710 14457 25148 45848 72802 85998
74895 12892 90071 35227 98634 35474 02019 88097 18397 60064
97513 46549 06843 39779 66231 54441 35688 70285 46939 82729
20330 06670 80562 38565 84097 78440 53983 28008 90569 44874
45488 27043 17397 57872 07825 40581 70065 24530 49777 54137
59038 86594 02238 07874 88718 59015 79662 47693 31654 94749
72897 33066 86448 68038 34273 06291 42790 93320 40934 33409
00000 +++++ +++++ +++++

11079/9162/7509 kHz, 15-01, 1015/1025/1035 UTC

29545 62515 84323 58443 80924 10213 53277 37866 62953 03014
21107 48787 39585 12231 77068 75924 01677 03450 80610 49122
36415 77419 34568 53037 94495 99704 02195 56061 53497 11304
28983 63171 00885 37405 55208 22396 85075 36479 30128 39579
08014 56886 63789 81129 57679 93198 77356 69453 03985 59404
37924 00742 06483 21209 88735 39818 07328 54593 10748 71716
07929 22837 76483 14685 52737 89179 82102 24313 68591 07323
68640 43444 33072 56941 68338 34075 00000

05617 31506 13958 37556 68799 99107 85305 35508 37172 96847
67355 82302 03016 31030 91102 05367 40647 34145 98570 87634
03869 45896 16675 80651 10250 28308 01506 69730 85639 82099
88957 70841 67392 56518 12643 63937 89711 69814 75027 92377
99559 82556 82729 83171 76571 90953 81909 67689 55420 32395
54706 07569 74043 20380 62632 55467 96201 51029 47889 05381
81782 48368 28528 12187 03300 40565 48394 85123 32020 84314
67793 84879 42154 79555 05822 78978 06554 41700 70289 35160
82355 23585 36184 57435 09991 04300 58599 94497 74024 87108
31085 75195 99238 73641 25333 50738 80416 06534 73152 48322
69246 97721 76676 65881 66798 84559 57713 35107 00000 +++++
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11079/9162/7509 kHz, 16-01, 1015/1025/1035 UTC

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11079/9162/7509 kHz, 19-01, 1015/1025/1035 UTC

12371 25098 65537 86149 78271 94195 25305 37926 09573 51358
07265 92818 31278 04974 45229 54234 07172 82732 96467 77639
35176 52150 63090 71219 19367 24398 29932 79042 54583 21117
17378 38948 84582 08908 72567 32315 19652 31185 47419 67920
24647 92085 36898 67064 13369 72106 75992 42152 10226 80178
18802 85922 65119 71846 48200 13510 32494 88251 89503 24515
50480 95606 26578 77301 81073 29839 43821 92665 97284 76102
42470 29108 28207 37839 04653 96859 97921 75080 03642 02873
19194 16669 83722 43955 27891 76099 58145 90234 69061 25656
98568 26143 70609 08545 14444 41113 65503 93689 45790 87158
48464 02909 17772 45549 78053 65121 30537 69743 60119 77312
82752 96786 73517 76909 52253 44352 24067 55278 82270 35609
37652 67019 46664 19119 28436 14752 92585 75928 03096 14073
84028 31066 87044 68380 94696 11616 83548 08246 23621 18563
01706 75029 31966 04593 14200 53415 24478 75040 30781 82563

23981 54164 98408 00561 12393 83948 63985 01864 36673 47604
60635 12410 03153 34970 03444 12104 08684 91993 05618 59338
82035 21481 50991 97272 33986 27306 83806 46518 39546 19260
01734 13950 00745 20740 63037 72314 63417 46449 43849 90326
86440 42310 06467 17938 86842 04768 64640 56479 09232 21680
56749 68339 92975 01972 62845 05895 35576 86249 26467 64358
75668 55562 67185 88242 44093 80489 94808 86124 56464 77750
61176 33399 45685 66527 10503 67704 57840 41667 14178 06719
59903 05985 00993 42998 32700 28821 18701 95560 47564 23064
87870 22891 50116 57813 33961 27061 99617 48880 08553 03650
37321 94297 35684 17154 82264 47050 44213 06571 77948 42189
72161 50848 38321 20531 53961 48881 66528 16129 26554 93749
44841 99698 15272 45884 19227 95189 85444 34836 26976 11690
70664 44359 40840 57844 13648 60474 28101 30987 80634 87209
48034 98167 35259 59704 36174 11253 82830 09363 48841 23306
20963 60752 66358 98416 57487 64916 78396 32182 81587 98810
99885 25011 99100 85535 90933 75457 67907 15059 79178 85756
94362 70107 08028 96747 76699 86936 59211 94398 06338 05634
23085 55076 63048 89670 15132 21795 64893 19379 62086 28591
58899 89041 06128 15247 63379 62275 00579 99519 97863 65414
95542 99089 61557 23563 36920 20390 46275 69008 27244 56528
94783 76693 21767 61478 40492 06420 58239 92719 89432 56478
43819 39532 30453 58397 47545 79113 84582 67485 71814 27723
29482 28865 01303 79032 59942 23686 52765 46862 70342 25194
74147 54514 70030 19358 66455 37859 67541 69729 26820 54393
84607 31231 36181 36403 00000 +++++ +++++ +++++

11079/9162/7509 kHz, 20-01, 1015/1025/1035 UTC

00895 39574 10267 11861 93693 63318 94431 93386 72308 48728
70175 50633 26492 35855 69178 74115 44337 17773 94872 46294
39685 46382 95209 24187 58933 35184 20296 46299 09421 69974
19585 37301 76586 63370 58292 08902 22082 14138 57754 80354
80032 57227 89388 67020 93625 15482 76956 10441 59219 88938
86820 48353 70162 42658 10868 48082 77507 79038 71804 51747
09800 05532 05497 06730 19144 33709 00057 79818 45723 70614
96339 78501 17964 88337 79572 27811 30532 82746 16770 76177
67353 37081 00000

63591 46369 59968 34847 10279 50744 85258 22024 68054 40399
93969 50472 48331 99819 20614 28174 43133 24749 97007 54721
27948 55191 11038 83867 18187 76477 05742 87722 33948 61839
85928 58558 52776 54923 24487 09141 55083 15680 85603 57542
91945 78075 07053 07357 29942 93053 08761 59267 52740 55188
19827 14899 24097 36469 41188 58888 41984 75648 86113 30123
38503 96596 65725 18069 05299 54094 11718 45140 49143 30509
53478 21037 07382 31781 91782 79996 77932 56172 36272 36890
43526 34197 98872 23105 94862 63190 60369 88150 82394 38089
00000 +++++ +++++

11079/9162/7509 kHz, 21-01, 1015/1025/1035 UTC

36599 47987 39847 62633 63450 74253 48327 76228 14652 82641
33304 22067 77424 08441 42202 67126 10945 43998 94045 68029
80813 04794 78623 10609 75652 06176 08876 15596 54264 92914
37441 65098 96798 88783 73297 29578 58360 58344 59446 99989
48495 98128 97562 54799 84992 99399 30557 16541 95439 49683
18984 77618 64973 65257 72240 00028 53651 71787 20481 18700
31902 75289 38198 03137 07467 90617 55394 57040 42288 19653
17295 60617 82781 96392 78532 85242 51912 41120 42736 35179
76541 90838 83479 96034 48447 98170 07501 94640 42487 15896
46153 00050 40322 09323 86016 20328 33143 63682 74601 74843
01843 78721 62094 46721 98062 67703 65066 45170 74558 02974
63104 32355 38318 75313 64280 94507 24875 59235 00410 61966
17244 01429 38028 07827 57927 74543 16040 79893 27428 63483

45947 45620 87695 76409 35628 54725 13957 97643 22583 49170
63366 24647 27586 75194 53902 56270 64693 77075 51960 24463
68531 77332 92069 86625 24806 73025 77188 20793 14976 02867
32986 90837 11020 64818 14579 73884 81245 88864 89142 67109
93061 94642 42837 16136 23668 88636 85490 32181 14589 80593
51467 90180 30996 23883 20177 25039 11747 09451 04636 68224
21092 68091 81542 91876 37972 60697 61291 52628 43855 61188
21363 52311 95045 61800 51533 57751 90401 55433 84337 46834
70400 74726 09224 73025 08494 92570 93835 65532 80675 13721
60861 07304 24221 12226 93885 58043 21517 94328 70690 14437
69929 91556 47420 24767 23639 13667 42078 00115 18399 16148
90764 89328 15124 61952 75120 09949 23277 82162 44383 52285
89976 65268 80521 98810 65756 29740 79867 26093 82932 59596
49698 81416 07502 07644 43182 51313 50510 96081 81158 64163
49836 69157 34155 94074 58316 77561 63110 58214 99163 99240
42217 24786 74599 26337 12335 73837 38654 72917 38401 78092
70057 83197 69298 95986 06171 44934 23579 94093 23889 37692
49524 41143 78450 70651 32951 40798 36099 89656 51207 95396
61530 58194 96797 17836 46056 41981 19081 33786 87434 51853
57463 41423 57294 24641 64536 20879 17097 46727 42600 10568
68567 49962 41988 92614 49542 34630 94662 54534 11156 99153
81489 19385 37320 81229 56648 61552 92420 40071 77605 50373
08179 34453 14091 88777 45607 76248 34523 39137 92999 64134
93300 53507 85900 27167 67423 50450 59974 32908 15858 05633
72731 39780 60097 48379 55033 98363 09354 81359 78327 31287
78811 65627 48530 46440 74386 38161 62522 63155 42428 54120
88165 56077 07798 70993 53806 46393 48768 16835 58172 95111
82169 09756 36633 78078 57233 20892 44739 47425 81562 97999
44976 09124 27670 91891 07696 71345 93513 39417 00000 +++++

11079/9162/7509 kHz, 22-01, 1015/1025/1035 UTC

50285 08489 44046 23742 52902 82684 29452 67335 75863 33301
15785 36255 61697 43563 47077 65178 31429 31755 55543 94164
55251 73332 15900 58981 97906 96571 67356 19804 55960 37691
32966 76743 29155 66378 91033 45616 93039 17674 78259 92415
65049 91132 29306 49902 81233 03211 82481 64770 25817 03811
06224 48810 80775 92927 26069 32517 87624 98328 56804 44578
38599 00205 69470 65671 39413 13729 47931 30026 10798 65475
14668 73169 20984 24605 30505 49300 66340 40077 00000

96720 78132 31090 35536 31954 89519 02314 54015 90748 88420
86186 43956 11994 45615 93324 17012 21807 05935 94047 30612
11514 21871 05187 15764 45398 36116 21525 27997 84187 42712
40300 63640 35193 81505 52220 08623 65044 45583 97408 11977
35965 06393 09737 01236 51518 86219 97967 81917 22765 32717
37161 88272 90760 75174 68760 77496 66353 67212 32815 84575
73188 45589 80766 79977 04882 59807 42240 97350 32291 52216
44277 23437 21818 93274 06445 67377 50685 01696 60265 51600
30128 04126 66394 91474 72420 14077 27998 55929 62706 34766
23752 26207 21532 15591 08911 94957 69056 16886 57876 72847
26847 62677 46716 94876 18218 41105 00000 +++++ +++++

11079/9162/7509 kHz, 23-01, 1015/1025/1035 UTC

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11079/9162/7509 kHz, 26-01, 1015/1025/1035 UTC

46501 91516 73907 71575 09210 72474 32471 16743 14285 81448
32334 76083 36405 45612 53286 43150 91360 59027 16203 50122
54088 41575 21440 78544 06105 44857 22097 44372 54518 16006
86824 30786 89808 55350 31880 67183 74569 28851 27097 77808
80385 21280 05477 48446 15058 41038 31077 84614 07331 12588
04891 59707 41336 17408 13398 76511 57933 69433 49482 90537
65123 35892 60401 68610 24740 39503 02489 81147 07593 02947

07289 51566 34261 21565 88798 11258 43709 75225 46517 33567
56934 15271 43977 45212 27811 87515 67452 38580 98336 77211
94536 33347 00453 86916 27261 60841 71642 83222 69461 69609
76482 73263 53063 75600 51337 96940 42982 05424 14387 45817
75328 06110 08176 44603 08597 19807 66869 56183 92528 46867
25397 96108 84346 45737 12690 67502 67031 43111 96178 52316
49339 52771 69751 19869 52249 26560 02355 38605 11520 85913
89432 02020 51042 07405 74374 04675 06696 60726 32179 29258
05362 22552 32510 30605 28813 14708 24333 27638 17150 40114
09322 39154 91474 14899 96223 24390 00491 20155 53366 14319
20718 21756 01502 44602 65004 31679 14160 26138 79034 09268
17724 14149 30500 25875 08386 61743 20648 41321 28193 68875
72869 65607 67359 62669 78033 04319 85038 70018 01241 11158
65736 68407 79694 96045 53558 25896 66372 62221 31475 66205
99183 70788 37797 19829 00304 56141 37044 47128 35376 40701
87391 44325 87253 22411 71890 68358 23994 33421 85647 41508
65767 93404 96141 21755 80382 05938 18882 49796 62116 71381
75574 08655 73527 14711 27007 56832 54947 51718 97819 20927
31334 42035 35364 58664 71178 02407 69826 28279 77146 78658
67812 25174 13150 99793 96572 71812 97524 62651 41064 71758
17020 20575 41027 63825 41264 74518 40271 37256 42416 90034
65356 93869 49673 88572 75857 68129 93332 86540 53391 41051
18094 80547 21609 08895 70279 02285 14332 92589 88676 91466
34009 98801 53676 60276 67713 68619 74401 47758 52822 74759
18508 87581 09615 53249 14355 37626 82932 80521 80219 44819
60121 31858 60252 43665 57426 82112 71861 11901 92032 34660
94206 31726 81932 89507 52495 30024 40825 86501 77761 96037
60205 84565 46835 99913 95864 62919 32155 60569 00962 55203
16150 36312 72866 52446 49848 36650 05965 35829 60413 78727
67602 25161 37298 36837 39364 54021 51695 58420 90868 07498
88979 45029 78277 83458 98818 21647 84690 63299 92659 42839
44630 03100 43253 09153 19788 81122 65923 92206 18237 62610
86263 91913 74282 67789 23942 74266 31144 54047 47310 63128
93661 48197 78500 84466 43207 89785 53697 86461 31988 42409
00000 +++++ +++++ +++++

11079/9162/7509 kHz, 27-01, 1015/1025/1035 UTC

22534 22125 76585 70198 63800 79328 18814 71689 69358 29579
42043 46045 23889 74481 20280 68260 02145 61698 36350 50001
25120 84557 73665 67183 41711 09097 45193 73593 40549 51982
76830 86474 21699 57755 87347 55031 82909 48822 32111 47771
00098 46641 02761 19642 06764 87534 00028 44883 02016 81571
21891 26546 41898 87952 34246 18601 93705 05334 16289 21590
57974 00533 97787 37747 87837 24051 30438 96525 60427 85845
60493 86483 80021 89799 94839 54438 17612 50315 77730 57863
16583 39476 20344 81425 19202 43085 00000

39113 70345 06664 27235 41028 69890 64671 70937 89089 64099
35991 82721 92982 53625 59994 14985 67397 50466 64426 20200
18423 78696 12788 06573 15587 03409 92833 99270 91726 98829
00862 80647 37884 91523 01504 07912 85398 39633 67680 31682
92405 34098 30427 63843 76905 32774 93264 68173 63614 63412
90814 72145 36761 56411 96334 23375 16035 93298 07872 39123
97863 81873 67713 22300 29212 93940 94825 42426 06083 26588
34973 04954 13921 72929 58193 57417 52092 13264 58331 05833
09633 62572 34307 39787 84458 35317 57805 89661 63217 13443
57090 64418 03975 28555 71605 43390 88913 94185 57077 20511
39250 44101 00000 +++++ +++++

11079/9162/7509 kHz, 28-01, 1015/1025/1035 UTC. Weak signal

67088 63368 88059 _____ 58997 68578 38969 _____
_____ 40396 73467 06083 19717 37103 77152 03274 89637
57209 83612 32300 53867 51089 02899 09323 97679 42449 15239

18936 36403 44726 46776 61670 96690 86179 88787 18782 84214
67114 77531 20265 67469 97661 76929 27020 32385 89577 31276
63126 58312 46312 611=8 59147 23846 53905 52698 92404 60851
83851 83569 35165 30264 76843 17523 46678 80456 10362 95067
69996 04200 10838 36219 19515 20128 79714 64581 70176 62501
61026 _____ 48906 84706 36776 00953 58480 41865
25155 36527 08579 72534 74583 40174 89696 94393 74515 _____
_____ 07533 02769 82340 08120 56416 18953 82148 01890
00386 21722 47239 66667 36426 40319 20382 74089 86658 80050
76620 16921 77678 62733 44257 07756 02806 81698 98606 41488
03179 51020 _____
_____ 74824 33439 79518 33067 26134 15863 00385 96818 45401
31829 63811 59191 19698 96644 60307 32574 85168 37006 28212
07956 68217 17226 25588 331:0 70336 32148 38537 73090 63585
53280 55637 00844 38903 39095 63172 92422 74433 45425 40855
24199 16060 96884 62721 96122 87342 05281 32898 29277 71021
45922 10906 11188 29307 27777 43212 87317 55112 18421 46708
22195 71441 09702 50797 78603 21104 35073 57780 88283 13947
74511 96236 12570 23800 07985 95079 16406 52314 03382 66968
04179 01874 49856 18779 90811 24792 72515 68808 06533 40952
89404 75406 58795 41096 96695 06723 99741 17951 93052 06249
72687 92366 79088 33854 36039 26664 92852 86996 88094 42382
67301 31794 41155 84597 20668 98647 18395 00023 15688 22105
71925 21055 48602 29648 45477 72974 53896 09095 30164 46473
35679 09298 86734 02698 61682 53840 32780 03010 80772 72395
18307 80631 49958 79461 38141 96378 81785 55136 54572 45660
48100 07642 28697 08936 01081 22263 83889 62819 97502 26407
49839 94012 37159 25461 60590 83259 _____
_____ 44870 07138 84714 08196 50685
49037 97678 87124 99772 86113 38419 53467 73893 14742 01680
20277 09966 52798 18222 23262 71084 13480 17681 03839 05519
19070 91135 90718 98394 78079 70570 65961 45733 74206 67415
26448 05546 40548 37364 76694 05664 17503 63642 13954 12993
17807 75922 91541 93889 47133 47068 71317 20323 53691 34906
01269 01542 50527 56192 79127 45904 17186 44988 _____
_____ 32603 14656 97781 56923 91316 87303 65291 60254 59058
92292 75830 11921 67224 57183 95109 55000 78830 10222 05150
78575 09189 52448 08597 58061 21284 03351 45407 00000 +++++
+++++

11079/9162/7509 kHz, 29-01, 1015/1025/1035 UTC

30487 45696 22231 56186 51648 28699 94218 55996 24957 41043
57506 43058 27339 58158 18218 67886 85863 62819 02403 96640
85885 29633 97238 10895 38671 06898 79057 41496 19428 50507
01616 03690 11681 89592 43064 25702 18942 28592 35040 87966
29588 15433 22334 15188 45917 30515 26551 88414 13285 76182
12219 69325 10288 71370 78776 53917 85914 81117 26874 97757
54610 35623 72428 80024 85180 18550 06876 98489 44493 29249
27043 12656 81892 48598 83092 77221 65279 63140 17971 33066
04783 27212 96795 47939 24974 67747 49624 24051 71548 61446
76033 14742 63422 38985 84964 17416 26167 95982 68244 34938
67743 15374 31248 22678 82444 30908 29123 63374 94007 86442
82015 37034 73820 70730 67740 78023 95164 32375 15334 36568
09427 04658 47912 86820 55227 94908 48293 48712 36388 18121
45809 46131 00000

96058 44660 39129 33839 69537 35346 08932 64225 25886 26997
55669 35168 41011 75284 13445 70877 79395 94786 90962 68943
74365 54071 15704 64999 70179 79866 23528 24440 99358 37496
29607 40881 93723 79777 41657 46037 52543 81560 01383 60718
16270 02101 65090 41623 19257 42447 59392 03628 19937 90043
72950 22241 31865 47053 00000 +++++ +++++ +++++

11079/9162/7509 kHz, 30-01, 1015/1025/1035 UTC

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F02 – Russian domestic net

14983 kHz, 13-01, 0745 UTC

14983 kHz, 13-01, 0800 UTC

14983 kHz, 21-01, 0747 UTC

14983 kHz, 21-01, 0800 UTC

13882 kHz, 21-01, 0810 UTC

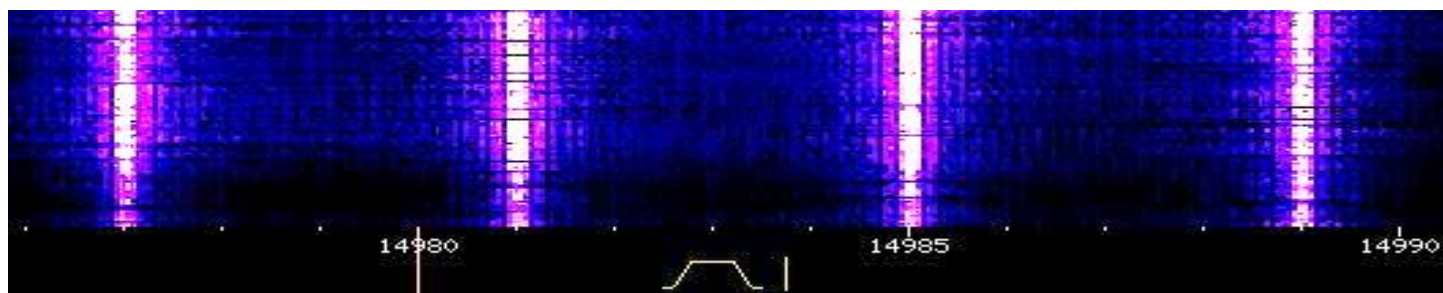
9300 kHz, 21-01, 0814 UTC

12143 kHz, 21-01, 0820 UTC

14983 kHz, 27-01, 0800 UTC

13882 kHz, 27-01, 0810 UTC

12143 kHz, 27-01, 0820 UTC



F06

Link 00000

10175/8153/6807 kHz, 05-01/06-01, 0800/0810/0820 UTC

11100 00000 91247 05025 01259

05811 42250 71217 14983 78770 99091 15550 36769 85870 13246

18555 07803 95203 01322 19025 75733 88439 63835 55350 86586

41094 80292 09700 49432 64611 13357 97620 28106 83702 89290

38972 39658 47372 46849 71157 64241 97079 71820 90568 96103

40463 59394 33201 90381 04065 71560 30353 85388 63503 81700

00375 05070 74521 23582 62378 71329 53352 86935 82862 80902

79835 26799 91189 26466 21731 78817 24838 66680 03655 97690

90384 74834 69086 60949 51146 20803 08879 05255 77413 65985

54708 87401 20229 75921 60905 87219 94632 80267 23100 94551

83311 34832 07121 47507 96613 65340 86590 14169 49827 97628

12642 34945 43697 03955 64207 67751 59096 20100 52308 03221

01794 12974 76788 42109 58259 03378 58924 52102 48442 73646

98352 46203 86455 25123 00000

10175/8153/6807 kHz, 12-01/13-01, 0800/0810/0820 UTC

11100 00000 72684 12026 02079

08897 69132 29696 61704 53941 32378 17188 61232 90724 56064

54680 45062 97100 50920 78115 79411 11644 22295 51623 46818

31496 53139 51157 08075 40778 39809 12290 84965 43003 47900

78105 43481 95937 80280 08135 82219 72334 74521 34252 55647

94988 71908 74489 86909 19540 25228 40697 49877 63471 37502

00987 25129 04739 48872 82901 59532 98461 13817 28242 84137

85120 35886 35493 70053 88694 52142 50783 27003 28182 84498

93319 74238 90928 00135 26231 38507 41221 48190 08756 58761

62561 64904 90725 02288 57078 64411 35256 21950 50500 57354

80611 09240 76132 64536 77159 22806 36278 17762 60363 97165

64536 65080 45745 61278 37418 22615 56764 21670 08714 40155

21537 89790 65055 72704 99342 58309 26102 75182 22857 56010

37800 62450 67041 35994 32140 01857 80631 76872 51858 30495

41158 01630 63515 14351 19446 43856 07395 91536 64517 16023
57652 66784 44848 59506 91155 49414 06903 81025 88456 51927
36903 05206 15329 91445 36739 97931 58307 61164 49999 40200
12670 64011 99016 57132 46298 25707 18902 31871 87858 29394
99476 59007 12730 39053 71059 17261 25127 03859 95036 66077
59853 60696 45155 95842 52118 76993 90472 86399 48860 01090
15913 53547 60008 12295 41348 88221 73126 87855 25156 18036
79871 29000 63192 45873 87704 26205 00000

10175/8153/6807 kHz, 19-01/20-01, 0800/0810/0820 UTC

11100 00000 30258 16027 00859
56936 45449 26987 52228 04593 14218 11439 18441 60010 36025
58821 20803 67728 97411 96046 39951 36275 42755 28677 97023
13018 92260 49605 90836 38791 58871 42370 08206 68256 93794
27541 49600 66913 15332 25595 37313 20718 00690 34750 98342
19224 45472 47165 39165 98210 20537 51965 54592 52707 80897
98511 37897 56379 06369 18372 84396 48183 78634 29417 05677
72262 24432 70478 96654 81985 79530 40016 22657 44096 53210
37227 18705 03890 97900 29030 18195 97367 13699 91367 53161
21298 42426 98263 27083 00000

10175/8153/6807 kHz, 26-01/27-01, 0800/0810/0820 UTC

11100 00000 95182 23028 01059
35231 07120 54267 97984 28761 30043 30706 16536 39519 55001
17076 85085 09829 64573 56132 41716 26566 50441 67780 68436
87242 12549 88634 07773 76738 11494 77706 09935 96853 85068
42886 83978 15895 64910 67915 51415 30454 54175 44531 25697
56594 52194 39481 66017 92609 37035 51079 78872 20557 41907
35011 65803 38746 86365 04054 40777 42374 48220 31421 65624
94487 87119 12394 76995 54472 55723 63957 03239 56240 59411
67097 94674 53320 50473 81471 15677 73026 67696 87124 72010
46893 57307 32944 71860 09575 36202 96543 43992 83382 83389
85256 61471 90655 70607 32930 44395 61155 68021 72213 40064
26662 85973 87014 28103 00000

11567/9426/7337 kHz, 11-01, 0830/0840/0850 UTC

11100 00000 50694 10031 01939
74703 67521 95677 23132 50451 45587 80601 10488 49625 97105
34701 54808 96899 44542 40775 97513 11454 19216 07549 17844
42586 08123 47519 40861 03473 91480 08422 13517 45261 81925
12994 22228 38675 01320 86726 50385 55335 56083 78295 99248
65971 97000 02351 20656 97711 74445 59358 34983 17652 24940
12184 32802 34872 50011 24097 83659 38100 73260 87892 00430
11214 86603 00810 32666 93749 21595 64942 87394 78635 06801
17824 00793 64298 97138 22875 09172 03374 86120 74399 92727
15168 36959 96825 90469 54087 93443 42869 09792 51212 56547
20304 79096 71194 37695 02045 16937 51684 24622 99208 16084
17458 20777 01860 65987 86442 44186 17110 62045 09822 96743
59274 75129 13412 39831 71765 79800 32496 37236 85414 64655
57298 51289 42900 73237 31296 03158 43981 48955 69545 33242
91222 82435 89222 22606 40889 84760 69547 61374 88705 35024
83302 75051 45171 75633 67110 44675 80105 53808 22674 81767
41126 32711 66162 43996 75736 20633 67921 02510 11715 91696
49714 96856 75492 96495 31660 38449 53209 86104 46072 48495
24125 97920 60376 41344 21093 76747 76297 89175 97761 29573
97508 28978 07208 37482 82916 97743 21682 73124 27787 06834
48153 31191 00000

11567/9426/7337 kHz, 25-01, 0830/0840/0850 UTC

11100 00000 96341 23033 02239
73504 24543 26713 37141 35511 25340 23484 79734 16310 39104
94189 07828 55285 54924 20092 81804 99729 11192 77795 82902

21929 74771 03842 79936 71494 96437 40648 02751 61396 34768
24740 27104 11122 65687 03194 00660 95398 19838 89249 64787
71920 14967 93014 51842 86522 75531 88209 62626 79223 56687
00881 53710 39597 14864 31024 89309 84885 92109 43058 37396
59311 06395 86084 14732 78020 65054 29863 10528 64081 43569
27455 43387 52000 96863 40462 31253 56166 95304 87796 79019
27689 02610 03933 13512 48037 37821 17554 20519 32944 88559
86565 63558 44993 67731 50377 89073 38348 30882 85417 47738
84029 96376 74806 86565 49211 35610 28120 91506 28952 25412
12202 85219 53806 79855 78931 09708 21750 03642 00920 48503
27864 34261 51039 68092 90206 65104 86745 83270 95314 66722
25120 76097 11772 48413 19573 23168 45280 27339 74142 10863
33675 97335 56332 43276 05316 14632 94418 72510 49296 42635
70170 06013 70904 23002 42913 70663 30779 65152 65882 38277
91193 71440 80794 42224 17903 40145 01587 39852 10996 13491
23243 00393 63194 62870 16662 23050 69023 28461 95500 14944
33301 55425 65920 83613 52383 93880 95183 23749 66601 54826
60039 02861 07321 39214 60826 75549 87077 82351 12242 81087
06210 80823 46697 03982 74432 94123 91225 02214 70794 38176
03845 32847 90450 12946 80343 29680 51684 31308 67407 12640
61624 33221 00000

9481/7362/5783 kHz, 10-01, 1700/1710/1720 UTC

Active

5783 kHz, 17-01, 1720 UTC

11567 kHz, 18-01, 1830 UTC

11100 00000 31679 16032 01959
11422 26135 29198 19657 10993 04390 87614 73136 13785 37420
58557 09057 60632 14038 84302 04878 44278 00178 80634 45076
89811 09841 35309 32173 03567 18321 17933 54892 07660 03653
30955 61887 02359 27219 56466 14468 23480 89460 78482 16767
86983 21618 85402 46793 37967 99442 82334 36795 46238 89825
67964 76378 15663 66270 55675 36817 99463 54143 43577 39994
38669 91664 63164 20406 65888 17539 61265 53669 41610 21200
94980 49976 15207 16582 44304 35923 27838 25361 72095 73155
99423 80619 86115 87269 66901 86842 82793 05400 65931 97210
77418 25948 73249 94109 50451 68859 51853 83802 64627 79923
66199 41198 32557 87498 59624 65659 39497 35127 11141 33773
50984 38461 13831 60045 60025 39944 42000 01430 53517 59686
99293 66651 02600 65962 64952 16250 06621 13781 80405 64278
45397 24958 43380 17607 19470 08131 01718 13761 83030 42145
64084 43222 99214 71271 69771 67153 72445 85660 84747 66463
37512 85503 16191 83156 10076 52310 62643 39908 28293 75761
42014 48797 40234 09562 64594 45140 16791 54731 43280 07358
94764 93782 58190 48811 79810 24212 17867 92556 63940 64738
84242 64940 37256 32742 53572 68979 98612 16329 10498 23471
94897 89458 97455 32193 00000

9481/7362 kHz, 24-01, 1700/1710 UTC

11100 00000 96341 23033 02239

9481/7362/5783 kHz, 31-01, 1700/1710/1720 UTC

11100 00000 86341 30034 02339
93011 79139 02127 36914 25754 47721 87628 68713 62761 05542
54218 56965 19893 67320 27613 65872 71251 44078 40428 21081
32943 30678 13641 35756 87169 95033 46355 78148 13835 04903
93555 79110 21864 53228 36534 02989 97415 67946 75682 30331
11175 17202 00335 25849 51915 45915 15348 90076 78521 04637
29109 18146 07653 56618 32656 14142 79239 74045 24595 34454
66999 59375 61511 58570 26164 52695 38556 10753 95591 11071
29892 81023 96469 70789 43689 18915 94785 28460 71370 98397

19753 01896 35766 77450 55377 56719 67893 00689 47368 09629
67034 18500 92554 44257 23799 21116 03018 00576 10868 11073
62113 23762 71093 62479 14581 83481 57659 40544 57917 99513
05972 79787 27208 34672 41978 44393 90608 40933 56597 19116
97648 69738 00958 04199 47568 82387 82115 12729 69844 21467
63952 93877 34128 29250 02937 30447 31757 24014 73433 84181
96032 70196 62255 87261 53463 03342 37136 03434 23147 95767
18822 07203 06485 73894 11459 54527 34420 23169 70969 43458
64375 41527 16111 88160 44095 27326 11886 54739 84557 12689
80013 32335 09170 78192 16136 37898 71407 09849 18446 78096
58109 84299 57437 16793 20593 93178 41445 21523 00804 42565
57683 87411 44657 88479 93452 61973 19784 94346 67213 19230
79854 21368 24213 56574 42676 87745 76341 12836 74240 57694
90925 30965 95920 46163 58125 13793 57001 50233 91638 46288
39724 43103 42391 82760 89044 91609 29901 22435 84278 83228
21009 34231 00000

Link 10053

11525/10437/8137 kHz, 04-01, 1530/1540/1550 UTC

11166 10053 25486 04001 00049 00000 00000 00000 00000

11525/10437/8137 kHz, 11-01, 1530/1540/1550 UTC

11166 10053 15926 11001 00049 00000 00000 00000 00000

11525/10437/8137 kHz, 18-01, 1530/1540/1550 UTC

11166 10053 97315 18001 00049 00000 00000 00000 00000

11525/10437/8137 kHz, 25-01, 1530/1540/1550 UTC

11166 10053 39457 25001 00049 00000 00000 00000 00000

10651/8189/7457 kHz, 06-01, 1650/1700/1710 UTC

11166 10053 32147 06001 00049 00000 00000 00000 00000

10651/8189/7457 kHz, 13-01, 1650/1700/1710 UTC

11166 10053 15926 13001 00049 00000 00000 00000 00000

10651/8189/7457 kHz, 20-01, 1650/1700/1710 UTC

11166 10053 15872 20001 00049 00000 00000 00000 00000

10651/8189/7457 kHz, 27-01, 1650/1700/1710 UTC

11166 10053 54783 27001 00049 00000 00000 00000 00000

Link 60070

10177/9331/7959 kHz, 06-01, 0030/0040/0050 UTC

11166 60070 81354 06001 00049 00000 00000 00000 00000

10177/9331/7959 kHz, 13-01, 0030/0040/0050 UTC

11166 60070 13796 13001 00049 00000 00000 00000 00000

10177/9331/7959 kHz, 20-01, 0030/0040/0050 UTC

11166 60070 95184 20001 00049 00000 00000 00000 00000

9175/7936/6975 kHz, 27-01, 0030/0040/0050 UTC

11166 60070 98756 23078 01519

90061 26866 51892 39620 30783 09687 87380 49932 31312 11608

15382 77983 14328 42889 37880 96936 79972 57651 07343 47498

98175 45440 95376 21109 65252 07387 00422 61597 16814 97558

04592 90457 38944 37083 69453 89629 03360 14806 99536 61452

32712 33292 05936 92050 87564 47190 86571 15023 83975 80908

46938 52620 21986 09972 96674 69752 06355 07503 05189 11111

75549 47427 43008 81613 07028 92990 73510 56386 80117 69760
23496 51159 69043 06819 02009 32432 40602 00818 90391 57364
89402 65045 82832 63203 44783 40084 79694 50870 56671 01433
81744 55879 90163 43059 06626 00225 18182 10516 13015 18923
93398 31175 36965 51355 83075 30297 36083 89228 34073 74547
36879 92367 49379 14891 26434 63045 57624 47047 33441 74366
70704 34981 97620 82237 98120 82614 22430 72583 07260 35321
07567 80341 58647 93789 74617 03561 44411 00847 63893 74830
10360 02420 90151 42908 98163 46320 08095 85859 25999 78149
00000

Link 70059

6925/5235/4528 kHz, 05-01, 0500/0510/0520 UTC

11166 70059 25413 05001 00049 00000 00000 00000 00000

Link 70202

10294/8068/6769 kHz, 01-01, 0700/0710/0720 UTC

10158/8023/6796 kHz, 01-01, 1200/1210/1220 UTC

11166 70202 95847 30026 01199

26806 86218 93981 33206 90865 09344 90047 47287 87740 14635
63971 68589 24452 08077 75039 15400 76686 64367 53069 93418
31027 81821 91662 55786 53840 70573 07967 95635 22768 53764
67372 63339 81747 86410 96598 25666 05509 21633 33584 09006
84482 78935 87640 93876 66048 94222 08293 52876 13081 56248
86249 49288 65702 59166 34939 38517 17215 25895 26053 39537
40109 81959 77524 68560 23126 84515 17394 52084 05283 36235
71982 61536 17806 38740 51825 36677 69921 65283 33793 89962
39422 57339 62846 09059 53959 74828 21850 99675 73999 54621
42899 35933 13372 57051 58579 10422 58353 05083 16610 01172
71229 45861 06305 97689 89261 89302 70280 53277 55003 03423
99866 55798 38902 71096 37632 34093 40122 26117 00000

11166 70202 32657 30027 02359

57120 76425 23996 57143 24648 22615 97586 37813 89157 38755
85230 05578 49818 21852 52699 67973 12741 19613 99343 00834
27487 06784 08531 44213 85409 70563 43486 25348 53234 72298
24487 88365 40344 77622 48332 35415 23183 72250 36052 08913
75232 05599 19756 69587 75989 29424 04598 50013 97387 23675
66763 88321 91091 26736 73434 71772 25115 12249 35669 44878
43192 79707 30117 61768 45331 51013 50531 87473 13010 90166
74998 77826 27428 88297 59827 92669 54266 81211 96036 22039
93390 91648 89382 30032 16929 13425 49848 46040 44167 79671
01555 58022 26704 82329 49012 87529 42284 35111 60659 51147
20778 97101 55624 38048 50712 99192 04650 58359 39811 40535
81105 41998 27984 47202 23050 92703 76179 10245 92251 26917
79565 45328 41131 52217 78463 41136 23542 65001 65467 88741
10343 72077 12197 09109 95691 65883 64115 20938 04993 07999
76851 16023 40456 00650 92464 34319 25174 50883 79084 55905
31688 57115 82372 52028 05949 72716 62230 62415 22641 26350
13210 91042 32776 03721 92039 37552 89522 20451 00731 06500
63188 40748 98674 61618 81301 21565 42190 17292 54728 86931
74949 84426 75760 62159 17711 12897 99120 22584 30823 97765
41803 36553 47900 41465 62709 07344 04142 89109 08004 43682
07715 79157 33130 13577 27632 76576 37420 61128 96583 80728
72245 91022 52139 25142 08639 50388 64770 11366 75321 62694
26124 44099 03087 93401 95991 59771 36460 52024 31402 65770
98585 60320 46285 27233 00000

10294/8068/6769 kHz, 02-01, 0700/0710/0720 UTC

11166 70202 45192 02041 00049 00000 00000 00000 00000

10294/8068/6769 kHz, 05-01, 0700/0715/0730 UTC File 44428 (binary contents)
10158/8023/6796 kHz, 05-01, 1200/1215/1230 UTC File 44428 (binary contents)

10294/8068/6769 kHz, 06-01, 0700/0710/0720 UTC No transmissions
10158/8023/6796 kHz, 06-01, 1200/1210/1220 UTC No transmissions

10294/8068/6769 kHz, 07-01, 0700/0715/0730 UTC File 44431 (binary contents)
10158/8023/6796 kHz, 07-01, 1200/1215/1230 UTC File 44431 (binary contents)

10294/8068/6769 kHz, 08-01, 0700/0710/0720 UTC
10158/8023/6796 kHz, 08-01, 1200/1210/1220 UTC No transmissions

11166 70202 34285 07032 01839
40151 95898 98302 65095 80173 22403 99022 90832 25325 59279
83032 29259 10405 54814 38234 27179 80951 69189 03011 38886
95307 03577 05453 91039 92807 59794 55418 11718 82758 03980
56614 59557 33910 32693 30876 13936 69103 64903 71854 12125
94783 08292 70275 44348 20057 73307 77972 42695 44991 33417
02874 24814 22844 54978 52138 78329 25900 45186 65621 96924
69607 91517 06857 04009 74710 91122 03752 24935 72048 93587
56173 93681 79726 05523 52616 04943 07330 30399 63142 47574
66882 42075 00773 80315 95223 15458 68532 35742 17512 62725
34318 63372 06509 48555 00791 47876 17374 82794 62474 63315
02618 14010 67249 49357 36928 72347 24427 20405 06540 35158
26592 43561 42852 13805 77408 46394 04964 85101 42562 40411
40824 15819 66038 71205 81682 53694 18922 31186 49535 83382
72901 95859 82235 70786 15667 69571 05975 44201 50391 51660
09812 85717 46484 58966 01943 31309 33794 65616 52394 03057
57466 46038 51830 21935 35622 32129 41162 74597 87067 20528
91641 32619 21202 90916 40138 47598 07321 21302 09267 70585
65508 11196 67084 69271 46292 48658 06005 41352 91255 82110
45655 32181 00000

11166 70202 96352 07033 01819
84266 86026 16681 70647 26132 67560 98570 17142 73412 25950
40218 72594 80393 77724 24720 29805 72678 33868 96924 37605
92339 69378 29931 27091 97870 66734 61217 86013 04851 62992
46829 23489 78275 55167 07082 92237 12479 43618 62194 60523
59595 18096 81311 50990 92493 16162 93332 88584 13120 08658
33002 24738 42189 91907 20689 30017 51163 91352 99291 72412
22444 06293 76716 23458 48740 50434 47354 59375 07519 67926
90995 49420 71498 29565 72639 48624 41114 38870 91596 37125
09894 02708 53369 73256 98675 46153 62701 52598 19623 76279
61276 90177 55948 24555 58467 67993 68305 22549 28598 15066
63779 90619 73145 12188 88406 44282 71317 38580 29175 47935
67450 02615 36425 70643 68657 23822 02607 23655 51172 58346
58316 84345 98818 85047 71561 36273 22048 94435 61176 80041
30978 47626 60348 94643 60878 97497 91167 53982 73526 89252
36155 28258 82891 82548 17703 24906 78560 62409 21352 48767
45365 31088 23872 86192 02630 98075 12044 42754 11490 10440
03123 89259 23720 90687 02879 95758 70489 74331 62189 58214
14507 64351 18098 47551 13983 44738 30276 35744 71838 33179
00000

10294/8068/6769 kHz, 09-01, 0700/0710/0720 UTC
11166 70202 59487 09001 00049 00000 00000 00000 00000

10294/8068/6769 kHz, 12-01, 0700/0715/0730 UTC File 44434 (binary contents)
10158/8023/6796 kHz, 12-01, 1200/1215/1230 UTC File 44434 (binary contents)

10294/8068/6769 kHz, 13-01, 0700/0710/0720 UTC

10158/8023/6796 kHz, 13-01, 1200/1210/1220 UTC

11166 70202 14685 12035 01539
58614 22821 68818 86535 53346 01409 51128 68663 35529 63291
81703 58906 31280 53298 30865 14695 31924 23922 15441 67033
01746 17854 30216 71454 01473 29138 72429 24285 38416 97618
32787 11455 79204 16384 51412 81996 86062 56881 62177 63442
62553 41396 73846 61311 19737 17581 61477 09855 98670 14726
66514 66266 10202 86450 29006 65533 77973 69514 00396 78122
95604 13421 10307 37682 33951 60516 85781 30956 59415 81262
46386 67084 49220 94370 23644 68494 14600 26490 78210 50556
67831 91127 13252 82198 94053 91504 07444 44664 13818 77016
16039 30602 47279 07999 13442 50680 16007 08479 75720 39896
43315 11602 26496 80796 39072 27430 94657 85764 79919 87776
57321 05586 20837 47792 66481 56470 98994 48969 82801 82712
15828 73263 64954 97192 08271 43010 87982 66890 45086 46340
89087 35611 09235 92759 64310 01100 52213 28596 64513 88743
31307 67004 64128 89042 65683 12198 01094 51030 72276 82612
11415 35151 00000

11166 70202 89461 12036 01739
28992 53542 51345 17584 69804 35472 08829 36661 85872 31231
24769 02401 46234 98676 26819 19845 84959 27479 34872 21249
02272 88444 26484 86951 37631 42725 01618 62824 25738 65557
20129 41489 71381 64255 10459 99497 04069 95121 72942 07649
98381 08975 26196 56647 70994 79973 69994 65269 90281 97434
63101 63247 59471 25321 39474 66043 59262 59099 11283 83703
60859 34644 32187 30984 45346 68878 19301 30936 90352 36846
57291 29131 09944 14893 33037 60720 58661 44648 74296 37515
35669 97500 90810 47270 49935 44241 41297 82365 32383 59573
74745 40072 05951 16180 19476 61576 49506 48015 18389 01976
16536 87536 33837 48409 94569 06539 70574 28525 16253 15296
90199 76462 58022 99687 15546 48548 87322 01004 48445 05879
44283 68109 49318 05991 68812 36666 52004 70802 09045 15082
12298 23004 72059 81898 13601 08099 02834 24283 78149 44277
02351 72323 57244 67305 20808 08816 98914 62627 86856 59218
16472 01852 58818 91481 06374 25833 08808 80415 88840 41513
75708 16306 69669 24722 47925 62448 46669 46126 61870 91305
09170 36171 00000

10294/8068/6769 kHz, 14-01, 0700/0715/0730 UTC

File 44437 (binary contents)

10158/8023/6796 kHz, 14-01, 1200/1215/1230 UTC

File 44437 (binary contents)

10294/8068/6769 kHz, 15-01, 0700/0710/0720 UTC

10158/8023/6796 kHz, 15-01, 1200/1210/1220 UTC

11166 70202 36485 14038 01959
07044 89364 01212 10428 75190 61269 72363 03135 17508 36983
22646 68480 90757 20113 44093 11630 20737 14524 05413 98070
19631 79845 73294 78903 06197 01151 04519 70130 95968 08721
88550 84388 53667 08849 45315 38559 25006 11622 07829 85697
90078 66601 44392 44712 05515 42363 00007 26240 27595 10817
61731 78145 33510 22246 77643 99089 82952 82013 84102 93604
87220 64862 21005 67102 78045 27748 39712 84270 93291 07151
33339 39281 21761 11792 44102 11251 74247 46701 27394 03397
73065 29565 77296 89319 77205 85305 43196 14852 85340 29811
92204 28913 83834 78769 97070 41800 31971 42534 54263 34367
01567 92962 61918 66511 13176 13170 12339 58416 36056 66121
78734 42991 44098 43021 00877 12930 44894 77410 99385 10846
24141 35937 73296 35906 72566 21719 60632 65403 87551 51240
66642 14715 66665 90722 89403 84073 35259 62908 97480 65590
75351 60184 39317 08974 47957 25002 89051 69372 26064 83508
58454 85789 80444 43348 29660 63497 85481 91549 88386 58895
37208 53464 62334 90243 00733 98662 94445 22719 29258 04746

05716 01219 21858 15009 27245 29362 12218 50885 06212 18109
05520 65112 15460 52464 05655 46562 21392 49664 99962 12664
89843 07323 93670 38193 00000

11166 70202 24856 14039 01499
54986 10309 69872 12239 20856 43116 51492 09714 62443 58745
51187 31471 65291 31459 48063 86986 21471 20138 04077 98800
82539 51768 75229 27274 27029 77688 86542 14183 22191 01020
62978 06100 84654 98735 33517 43500 69705 86787 50555 26530
43862 01746 91831 93362 20439 97368 37052 72105 62790 79559
36421 92163 84911 28142 13241 66023 04099 78878 67790 77383
25336 64192 74659 36564 62120 36010 90722 89146 23388 19175
15950 88771 21256 68861 74238 70026 79232 30433 06444 82383
45625 25178 92812 71095 41793 10363 46995 16012 99964 87037
48827 64236 70280 54035 08070 17571 01775 31594 76290 60689
26960 03058 49080 40957 04720 48067 25790 35864 01182 65698
18970 68980 13276 10984 30710 60391 64647 93243 38054 22541
28628 09674 54690 37425 57939 12625 61098 76062 25823 34011
20335 46201 08290 15281 21661 79169 62161 16402 19177 91840
78607 02274 57676 84617 16852 30032 02885 39147 00000

10294/8068/6769 kHz, 16-01, 0700/0710/0720 UTC

11166 70202 85164 16057 00049 00000 00000 00000 00000

10294/8068/6769 kHz, 19-01, 0700/0715/0730 UTC

File 44440 (binary contents)

10158/8023/6796 kHz, 19-01, 1200/1215/1230 UTC

File 44440 (binary contents)

10294/8068/6769 kHz, 20-01, 0700/0710/0720 UTC

10158/8023/6796 kHz, 20-01, 1200/1210/1220 UTC

11166 70202 16328 19041 01519
22597 14578 31446 42021 58232 41719 25165 66605 90685 99608
32472 91171 47339 20251 63854 95484 38609 88704 84523 80179
15602 75133 93409 55506 82563 40775 71787 78208 50044 47539
49972 78741 39727 25890 65513 46004 76855 80724 11337 61788
31191 39930 97259 02107 92447 75297 73325 47618 91136 50489
88388 70310 00757 75746 82398 88652 82269 74018 35804 08378
56799 88210 24527 91107 17494 84225 53943 17996 16478 29503
70303 40573 87846 51724 73025 35991 92632 07388 76315 08850
96676 14933 93534 06789 17352 32099 42760 42040 00072 82219
96971 36123 10519 59117 27311 29877 53539 65307 12839 26001
54623 63190 15235 56315 64937 43915 41883 90907 75812 43609
45761 31366 53654 61660 35594 55275 31196 60732 94696 04180
16037 53208 31940 32185 02403 03754 13293 57388 97070 02667
47361 83336 95383 89731 23367 82684 68310 33237 25014 60253
46466 93861 68662 37662 12058 28113 39262 26744 34660 41149
00000

11166 70202 21496 19042 02079
04761 44550 93949 77111 18291 98827 38609 67444 08551 60187
81153 86149 68223 70436 97591 23107 70904 93526 62540 00702
49979 78684 08624 89540 70954 90818 22285 06295 14436 94164
05726 42117 11937 00075 59633 95053 01708 14918 66406 04900
96774 49002 78549 13942 82363 72486 41933 02005 84917 29182
08611 69258 79878 44220 18860 65219 30424 86495 57164 87373
74353 71831 11797 97872 01301 17810 92716 31727 87472 86196
87436 94947 80086 73901 59587 76063 48712 38414 19826 19453
45687 68642 23807 33933 42806 37108 76889 35037 36464 94422
50264 44426 38452 91983 38204 94857 94569 43836 11105 14170
98275 63629 44022 86695 91530 37607 25380 15568 70041 19575
75543 34327 35087 58771 29943 41294 59111 96592 66439 55134
57276 93102 81604 15036 82157 69257 45628 73978 83771 75798
90520 58483 02124 24743 11297 93316 84464 44403 84848 14571
44434 43886 36172 19562 05302 97993 06646 26976 94456 88482

04050 45711 81373 62602 39012 75852 76211 94850 77563 90203
31248 62903 64494 69830 12335 73626 97206 92042 32556 00138
54731 94253 65287 15827 11614 62159 78828 36297 91353 15672
59816 05149 39075 91035 17582 84549 18131 42586 86665 36526
60314 12564 69653 05919 24373 42439 87538 40933 42513 24171
29789 12220 59575 14856 21308 42205 00000

10294/8068/6769 kHz, 21-01, 0700/0715/0730 UTC File 44443 (binary contents)
10158/8023/6796 kHz, 21-01, 1200/1215/1230 UTC File 44443 (binary contents)

10294/8068/6769 kHz, 22-01, 0700/0710/0720 UTC
10158/8023/6796 kHz, 22-01, 1200/1210/1220 UTC

11166 70202 16485 21044 01859
09061 58799 41958 16148 34380 63434 30642 63570 73822 83940
07727 12291 86558 56464 30486 06374 56354 92102 90702 61249
17962 27576 61804 68157 23052 73663 34773 42425 25394 59825
35006 76542 89951 98452 37325 83953 55597 17187 21319 44508
06128 32740 34201 87514 29266 64663 53379 73321 68341 12481
65914 59381 96326 44656 07066 61714 66938 72803 25106 47729
22459 09586 64588 21318 62999 33757 85261 86187 06868 10753
58820 98338 96736 42300 10667 43648 31308 43458 98887 01488
27142 70544 47620 80314 40359 48372 77002 36165 02888 70245
96893 10011 52948 69146 56549 44884 64472 83546 67445 68736
05121 66288 41425 53954 77620 09971 11379 89468 24068 87272
26618 26408 97930 29660 40153 83216 33396 92907 30048 21185
66776 82872 22046 26329 89653 39960 05654 58557 38448 05721
60864 54049 50102 20013 37724 91811 38561 22166 55903 60314
71743 54589 16489 85177 53693 92257 43159 03817 41586 46515
94950 98009 52293 16630 17789 20304 38177 87541 26975 75214
36821 97239 37822 41136 24368 22206 86621 43929 27154 54361
09123 18089 71343 67954 68733 16457 75227 99827 51597 54409
13893 91504 70771 44183 00000

11166 70202 34856 21045 01599
18140 62247 87827 55421 89230 49428 90854 48646 58216 70662
88617 45716 36309 82185 38152 86082 67138 08956 73304 59265
74741 28362 42030 85093 33529 63797 93007 40528 71158 42783
85007 00261 40256 99328 17455 83261 19927 25223 05615 22477
32984 99933 48851 99855 89838 53809 65384 13902 94984 44269
91994 71922 77030 49669 72097 24180 28186 10533 80645 82126
64174 72826 59272 87898 40480 12986 60141 27278 85895 49351
21909 03295 39276 69731 26267 12662 00463 29759 08480 92224
31305 01735 20368 27629 67711 78655 69171 41368 28677 63095
80722 02428 33224 95641 60379 24690 61183 02574 50152 46295
18765 67456 05449 07154 94851 56362 39896 66786 18952 51377
11663 29682 56750 72110 49723 70366 04192 89868 43494 75364
66043 64198 44301 44242 29860 56479 52087 16922 71298 00256
85815 19452 51725 32993 61005 45418 94035 18944 22831 15196
47636 17824 08224 80214 78534 78969 35417 64429 45446 65669
44369 60190 47891 39366 36507 20693 57193 45157 00000

10294/8068/6769 kHz, 23-01, 0700/0710/0720 UTC
11166 70202 85246 23051 00049 00000 00000 00000 00000

10294/8068/6769 kHz, 26-01, 0700/0715/0730 UTC File 44446 (binary contents)
10158/8023/6796 kHz, 26-01, 1200/1215/1230 UTC File 44446 (binary contents)

10294/8068/6769 kHz, 27-01, 0700/0710/0720 UTC
10158/8023/6796 kHz, 27-01, 1200/1210/1220 UTC

11166 70202 98521 26047 01659
11920 59959 89274 46201 31431 29852 54606 23198 23084 96356
02852 15598 03752 07005 62465 94660 49634 17282 58312 96884
79135 73774 71152 40212 27639 56791 94498 27046 56363 93396

43521 07531 62486 76782 95692 01516 82730 52941 67851 02652
07591 60543 59391 13052 48389 34991 16240 81957 24358 12559
95329 46847 61925 95573 34249 00421 23393 64567 55751 31902
07202 48339 61812 16097 86962 87864 96936 48637 81443 54991
85375 50864 72706 11856 71972 92763 14570 21965 21298 07420
98595 48865 54779 95397 69782 03359 30501 42517 09149 25186
95378 99430 25404 10115 64366 96463 22886 18387 06423 92143
37958 25443 41884 78858 61045 00869 80964 94076 86510 26508
58050 10585 57542 89665 41483 04145 98253 12354 23519 22055
50178 02502 20154 01006 55341 38086 35497 07702 53105 20097
70377 00675 82974 55300 79892 36719 10536 54718 09547 70397
18740 58763 64715 20054 31700 24987 93075 98760 63194 39341
84725 33651 07064 36933 19667 22064 11698 43178 17330 97943
05783 71301 67843 47163 00000

11166 70202 96412 26048 02179
75875 35842 55984 75030 71069 25831 50125 37345 93706 59477
46355 86898 25583 49849 05395 79222 78998 06653 91860 92851
98841 90448 64107 72259 46039 73613 97750 39258 23276 12713
66330 90035 28947 62006 27533 20027 50267 82733 88418 43809
31476 27904 48092 02195 78080 07256 41252 73728 83069 62077
31054 32759 86038 04582 24732 21287 01164 01518 10405 26764
74956 06712 38520 83040 59746 72214 96355 36641 13820 92752
49032 45565 64157 63172 45464 02789 92711 53555 12684 01668
32146 31692 86997 85414 81997 87619 55375 47850 81173 39886
05552 77613 97749 28245 08239 63014 21971 22460 79918 99712
73431 01921 99629 68429 58339 85729 78202 74850 37823 17982
03369 68938 93208 37896 09188 85815 99204 89503 43233 75422
40940 50571 29956 13133 35783 85452 53699 08509 45882 51550
09753 54396 92372 14083 96936 83532 07174 48834 50105 24861
83326 37584 36048 76748 09800 85901 61189 39273 01713 17984
64561 72792 61896 28239 94446 74958 34748 94290 92172 93389
38304 81103 31453 16159 85475 90896 86741 07318 30375 38558
29032 79615 00692 57224 72525 21619 02025 63735 20626 21410
05133 38625 84679 54057 52037 00366 73913 25043 41898 78526
79996 86832 82623 15551 04673 70777 19132 51833 03896 01541
74220 73785 46902 86220 62955 29575 13669 95382 66549 42232
79184 78159 76641 74802 57972 48215 00000

10294/8068/6769 kHz, 28-01, 0700/0715/0730 UTC	No transmissions
10158/8023/6796 kHz, 28-01, 1200/1215/1230 UTC	File 44449 (binary contents)

10294/8068/6769 kHz, 29-01, 0700/0710/0720 UTC
10158/8023/6796 kHz, 29-01, 1200/1210/1220 UTC

11166 70202 41029 29050 00519
47878 94409 43062 14094 71968 19398 94101 16847 08984 47954
90529 48373 19305 91833 15318 19498 11928 45295 61226 76322
03848 00820 03136 30633 15887 46957 81028 43536 34618 96732
35793 73262 95104 20066 65054 23054 64121 78631 91211 50096
28547 86587 58868 21419 18628 45633 03842 27712 20791 50049
00000

11166 70202 73842 29051 03159
79545 71775 28746 55326 34989 82644 70395 95307 69618 09785
77935 01476 89192 83244 82833 12298 66675 46033 66126 37922
52600 24721 05174 62671 31243 29041 65416 72618 02281 78936
29355 69204 92625 82481 79915 54830 28124 13124 80401 01356
19807 59675 18211 37446 44371 47499 04513 15704 23598 54325
47070 45526 32379 69130 38394 02619 90037 67518 26412 51110
14651 02054 59849 39198 45036 30959 25506 54271 60107 33643
19611 48442 50278 86468 20445 70420 20608 97224 54428 64685
30369 21721 72844 23862 98728 10946 81403 05278 31234 62239
89815 47597 46781 72891 73579 48511 09765 19637 65164 89380

97087 12452 16771 17802 54722 96110 01863 24021 23508 97936
47655 72119 38880 45179 15751 71941 34206 00450 73104 02666
02426 88678 20507 23981 95678 13998 70776 35803 67609 90006
93847 72448 88028 31861 70942 42238 84639 83607 25001 48429
91484 79213 19582 52449 08835 60723 43405 65338 04179 01985
22715 78364 09022 11377 28679 68726 91167 11980 71983 41295
07180 22622 01828 92332 64704 88246 51497 06112 49344 33031
97707 20392 95767 34694 25910 21676 07752 43439 18733 56188
56829 93955 09761 67519 14242 83933 69837 96858 95879 17510
18060 06773 24900 37100 74688 14449 41703 92045 98120 45349
15963 17512 73146 43217 40397 22082 42652 97366 10961 07474
99974 73190 23151 68831 84086 56835 39119 49013 44799 49968
05264 45321 70173 75583 25007 92120 93324 80777 16424 67757
20811 47437 09435 99246 49790 46775 62225 63142 66133 98649
01602 06040 40682 21606 16949 33144 65844 84582 62498 38341
99695 96207 47578 74211 09807 92636 19547 85424 33946 09861
69079 53943 99877 51426 12511 29490 71425 87498 30919 43702
12992 46215 70631 31408 89721 83258 34843 07485 45500 40592
21037 72705 25970 30290 83895 47038 38754 04404 28383 53815
68072 96803 62694 03228 85942 47929 65754 48564 27152 48383
48955 13651 20179 62317 16816 14915 91268 16535 56263 26510
83833 66258 09206 51313 00000

10294/8068/6769 kHz, 30-01, 0700/0710/0720 UTC

11166 70202 91342 30033 00049 00000 00000 00000 00000

Link 80214

14471/12218/9933 kHz, 01-01, 1330/1340/1350 UTC

11166 80214 50231 01001 00049 00000 00000 00000 00000

14471/12218/9933 kHz, 08-01, 1330/1340/1350 UTC

11166 80214 91478 11014 00049 00000 00000 00000 00000

14471/12218/9933 kHz, 15-01, 1330/1340/1350 UTC

11166 80214 95721 15039 00049 00000 00000 00000 00000

14471/12218/9933 kHz, 22-01, 1330/1340/1350 UTC

11166 80214 95721 21069 00049 00000 00000 00000 00000

14471/12218/9933 kHz, 29-01, 1330/1340/1350 UTC

11166 80214 95721 21069 00049 00000 00000 00000 00000 (msg from 21-1)

F06a

13569/14979/16351 kHz, 07-01/08-01, 0600/0615/0630 UTC File 47476 (binary contents).

08-01, 0600 UTC: wrong 500Hz shift

13569/14979/16351 kHz, 14-01/15-01, 0600/0615/0630 UTC File 44577 (binary contents)

13569/14979/16351 kHz, 21-01/22-01, 0600/0615/0630 UTC File 84478 (binary contents)

13569/14979/16351 kHz, 28-01/29-01, 0600/0615/0630 UTC File 43479 (binary contents)

20955/17443/15880 kHz, 10-01, 1600/1615/1630 UTC Active, barely audible

17429/14421/13373 kHz. 18-01, 1600/1615/1630 UTC Too weak to decode

20955/17443/15880 kHz, 24-01, 1600/1615/1630 UTC File 44438 (binary contents)

17429/14421/13373 kHz. 25-01, 1600/1615/1630 UTC File 44438 (binary contents)

20955/17443/15880 kHz, 31-01, 1600/1615/1630 UTC File 44438 (binary contents)

6815/5794/4816 kHz, 30-01, 2000/2015/2030 UTC File 44050 (binary contents)

10169/9328/8024 kHz, 31-01, 0700/0715/0730 UTC File 44050 (binary contents)

F07

7461 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2100 UTC
6979 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2110 UTC
6783 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2120 UTC
5841 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2130 UTC
5318 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2140 UTC
5081 kHz, 01-01/06-01/08-01/13-01/15-01/20-01/22-01/27-01/29-01, 2150 UTC

M42

16156 kHz, 01-01, 1300 UTC, MFSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana
UAL UAL UAL followed by opchat and a message

[illegible]

11111 70103 45789 01001 04009
04459 70030 54710 14768 86173 62886 90294 98720 83650 76631
79777 94771 31205 71490 42531 65963 49973 57805 28577 28987
31302 06746 40899 09478 31961 20098 53161 74359 54603 26334
58770 20919 11917 95130 12231 27321 97912 87529 48718 94220
14773 83942 92812 32186 28699 57157 92329 74612 53214 82571
38189 20799 83330 02804 56254 38902 29043 88896 82080 83432
21571 65282 54512 06992 90795 90714 89069 70936 37322 12338
17047 84653 47610 35087 01285 28137 25612 73613 64530 37555
39344 78915 91332 58486 05845 56858 89418 96529 62941 20785
21470 19956 01283 45389 43256 94102 55048 14047 09041 52192
74797 76799 30229 32263 30882 61156 98151 34907 20859 02927
06972 81486 79348 89255 37603 77533 13773 31054 88620 11011
14407 07012 65068 40120 12183 46378 61120 50357 82690 42703
97525 85480 19802 15719 99774 82105 27369 63555 27932 62591
02414 72476 94055 65917 08273 76324 28161 21240 61108 82849
78654 93806 78251 09136 58176 57926 61778 93287 70789 76669
15798 74570 81462 93006 20858 59208 13760 62049 13914 13999
86706 79096 47317 54957 26747 83168 25225 23166 15728 40715
40905 65015 60874 39194 63348 59030 97654 45187 46639 56465
61509 06768 60513 27851 89355 04788 65549 32697 36818 82776
81423 54516 22121 10145 21669 68372 32572 58374 93377 33137
54589 94883 85279 25636 13198 24259 92636 58881 31930 31530
52398 51573 49087 07194 87037 41056 51271 58653 80529 56923
10151 37779 34865 97448 33380 39267 80633 76041 65620 49482
39965 29908 00592 00481 65410 08107 90103 08902 03114 81184
60990 04394 53749 39585 75894 77298 29636 73012 98837 00245
31496 47940 51517 03365 93269 25450 71253 07810 68436 86593
06544 47251 56282 57460 11145 82055 91539 51136 22637 35834
45844 68750 36386 09030 14451 26788 10863 49248 86637 02859
65246 83016 23235 17113 55242 38651 89729 91486 38073 14931
18366 53972 62556 75252 97688 80087 45221 71967 12971 88745
18401 30583 85949 34703 61228 48502 87321 64781 49489 88022
20430 30045 85249 68237 99576 71117 92211 85570 71402 18838
87733 17599 52774 77433 67436 89870 83606 82398 63355 10391
18073 50268 61562 01483 02619 62475 90194 83687 14245 50477
13832 91409 57468 74334 95163 24985 43420 11944 09875 68865
99505 01094 25690 30598 83073 01544 81521 80302 97518 69310
27644 95311 34272 60349 12854 39686 89100 05817 29521 33275
26165 26098 52510 90013 88266 75803 32867 30152 76724 36896
32241 96091 49320 02160 08962 26523 09741 16185 91713

18726 kHz, 08-01, 1300 UTC, FSK 75/500. UAG: Russian embassy havana wkg UAL: MFA Moscow.

UAG UAG UAG followed by opchat and a message

Too weak to decode

UAL UAL UAL followed by opchat and a message

11100 70103 51387 08006 04009
44169 84357 00699 35359 29282 59439 79489 83701 37758 64074
56013 43497 74875 01573 09225 68911 52540 11919 16266 06761
85381 45958 94921 38720 20523 08047 85597 34958 24499 84338
61518 48877 75722 98907 78085 07659 35966 64888 97338 78304
99280 22826 48440 13836 41795 83417 10147 09375 20831 16838
26180 22765 96769 55835 89450 39432 76116 04779 56065 86175
99185 71860 75057 23566 20858 66617 44776 71649 57841 29984
31876 48635 00870 89042 13841 27265 15284 53676 30978 38539
78428 97298 58821 77498 27298 88853 36893 90743 14886 68272
14736 50375 98647 82581 01174 44055 09543 24829 27741 35862
75071 43043 62191 77640 94760 11395 30063 75520 91522 80747
51196 41304 87332 50799 39177 83402 76661 30987 04620 17009
96096 82353 18236 98200 13597 57554 82630 11651 85807 81194
02750 66644 56882 37698 93936 81081 97249 58864 88515 58152
05752 28338 26846 85383 23606 45147 43798 10727 33616 13523
8656? 75392 43077 51160 24758 08104 73806 33142 38749 10470
07746 13682 97134 88152 61562 92889 59326 07528 88694 20745
64170 82520 32275 55469 90530 21301 77373 18468 00796 87536
75983 13059 03218 55873 43217 99142 94054 66354 48111 41024
65417 07445 47513 70569 89788 82356 36462 32874 17137 38365
13517 06645 45563 63798 84460 16474 51419 82394 52820 79195
89845 99706 70645 51508 01644 81240 47969 71064 87442 67031
44409 08190 35083 52320 91328 70448 11170 89040 17996 27219
52708 87788 80201 46482 19790 24971 14737 60999 95240 84814
68198 06077 42187 90926 73545 96094 55460 07099 72848 32001
67798 12026 09662 56940 96758 77649 39471 02222 43296 05798
31640 90805 77941 02810 61294 90489 75510 96838 14595 34004
84287 27522 55818 48172 40618 62699 29693 59354 64851 21862
97431 67340 99565 11043 29890 04891 76016 98803 06287 25108
19749 88038 91932 83825 31304 11248 93404 09212 02949 18010
14591 75757 57415 92293 62054 24854 19504 74336 73155 99136
56562 46760 65361 82783 48745 81599 30181 64969 74993 13964
20178 68633 25673 48980 02475 11785 77814 81739 77203 93505
93887 34910 84339 21845 30041 43715 47344 25809 64768 42967
27067 18603 83900 35832 84337 04345 82904 49026 74682 45414
72387 04122 23616 32640 97774 59657 55929 25502 09071 03731
77424 54539 41674 01774 32520 03162 94145 29187 86187 11033
13899 43527 03623 66227 26738 75931 26127 78347 71171 46464
66604 49779 23462 33086 73129 87282 24322 48915 34024 21106
43222 07480 22864 23796 41219 80649 06876 45915 18270

UAG UAG UAG followed by opchat and a message

11100 70103 15786 15009 04003
56860 59809 56241 79572 90798 88261 49637 88861 81894 32505
42308 47655 43985 38160 19552 43458 94651 68406 48609 44187
07048 31858 61786 32540 75494 79287 83816 61552 87025 30130
08149 54792 16094 14720 51848 99611 84590 43173 43798 06906
54395 36881 25891 35819 44633 83530 71892 06818 90821 01605
53672 51591 88102 25280 09485 73201 85741 45689 93986 14923
25088 69454 14679 61214 38175 80450 84466 19255 49157 15727
45019 54484 45758 91526 40610 78588 12941 40340 47145 13355
45952 44932 86047 78856 84969 80283 77688 79377 38503 99366
14070 85539 87760 23725 55418 36053 89156 24762 80402 07533
17152 06692 44644 25823 14615 27094 27224 17260 42888 15996

69860 23313 48750 79433 38447 27046 90458 98417 61649 64825
90064 59253 26233 21731 04182 76135 33824 34081 30402 91978
48773 47539 91541 68400 91830 04210 64907 00798 59306 57192
48771 19473 72397 35995 83237 62712 86396 11283 67693 32798
14430 32365 42026 70843 45454 35886 23803 11437 61161 49135
18590 02987 81510 36429 45604 04745 93550 61997 45890 96415
43239 67807 65195 61303 94930 89769 28748 28937 88232 60755
50108 88097 46908 73879 41299 06198 19523 04458 16387 15946
56511 14111 05709 55235 53357 85421 22932 71183 14585 60598
52133 24285 18220 82589 47082 53586 85444 62063 59926 88836
85105 18713 41450 20555 27773 70311 80106 63934 29044 67961
72008 77541 46764 00971 39061 22734 21872 19797 37428 74734
77529 50489 23515 21310 56258 99084 69661 09980 99738 69370
46732 29704 00978 42467 15780 37970 83524 91669 95985 69237
87430 30975 01057 85664 66626 20738 61263 56058 27421 78897
73309 73979 62792 71207 45229 50953 62276 78901 28479 45708
01424 67242 54436 15395 42624 03392 17470 99705 98478 97023
71786 73852 40912 62137 34200 41101 18614 23496 10+41 82343
93185 16131 85104 79062 08593 51356 47781 03242 73607 47711
39391 77553 61922 50298 43622 86324 99631 86925 61204 11668
41060 34507 35669 56087 68529 94152 22549 07069 73058 98393
19233 05290 25161 98964 92114 51690 10965 30066 03060 39476
60999 99516 48568 23865 60471 55226 70185 59475 44401 92567
31983 51403 32308 41312 61109 20813 82135 23785 37331 07044
68098 73642 16794 05156 12153 08930 06114 05132 23753 49656
43982 68676 27610 75308 82490 04552 84117 45738 85334 28389
32144 33878 85114 17904 08875 43698 66892 99462 26395 11863
70217 26935 09691 16514 26788 38768 25778 41618 75947 04219
58614 70323 25205 94687 09512 05751 47953 41085 27723

[illegible]

18726 kHz, 29-01, 1300 UTC, FSK 75/500. UAG: Russian embassy Havana wkg UAL: MFA Moscow.
UAG UAG UAG followed by opchat and a message

RYYRYRYYYRYYRYRRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
11100 70103 78265 29013 04003

69739 43692 47031 60044 73906 48273 75665 66901 01923 33466
09530 87344 17855 72227 51469 00906 20897 43213 83223 33548
02173 83560 73067 14597 23123 49571 22988 31417 82662 21246
35118 80289 65296 11607 02083 36911 87374 66739 50963 94963
83685 67494 95560 46185 01566 68789 76650 00383 94715 37445
94908 68825 33913 74491 66207 59455 76804 32888 53950 57345
63972 66589 58163 88857 33451 71898 65991 92925 70892 07036
93326 47900 37567 00878 72221 27407 43373 86788 63803 83640
57067 22485 01358 81534 70877 81875 93275 32257 61704 29813
40550 99447 16092 15689 48520 76660 11152 46820 37524 59421
68637 27549 82184 60364 24344 75012 33980 40861 80032 47502
06812 57600 30059 46368 30244 47542 79899 77380 00110 99688
98756 82520 81163 87106 73432 78101 41478 57649 55663 60188
23260 06798 20099 63228 79782 81074 75108 82853 33120 85460
93610 98769 32372 93246 56109 58690 17053 81777 23126 09237
15360 42499 79209 84749 31980 38765 15718 89948 05143 09839
44561 37381 37591 44514 60079 25585 31175 72210 91264 68920
79737 49181 11488 14992 99992 25625 97095 09006 14604 10713
90190 22373 50487 99501 36460 70707 02224 61933 61966 39163
40421 79308 75032 05539 02723 21095 18694 02692 64231 10423
44527 29294 41739 09063 06359 97133 01998 53845 38628 54857
45444 09959 37337 57735 99768 47568 86868 70533 78037 53178
00585 39239 81060 60196 67379 92565 48670 24124 21369 59186
89633 90807 76927 11620 44845 31205 96226 72721 63519 41077
81497 45708 97061 29077 09176 53649 40290 41639 48132 99376
74720 98133 29177 81736 93582 34706 58014 29128 13266 80249
88845 36266 00875 12939 00805 15103 72588 70772 44410 95845
42506 14557 50229 39013 26670 66763 16927 44460 31952 74712
20911 68317 84485 71494 14736 83774 77347 33104 06463 46652
42150 55183 37174 51693 74260 97844 98813 90513 66314 71990
59540 47157 29715 65578 88803 92181 08818 33262 99299 61209
17466 97848 48016 28105 (deep fading)

90180	18148	99559	33871	48720	49502	61517	64184	25866	77874
90314	11502	22358	76175	42569	84253	82085	47523	27212	68771
20078	58931	13666	58918	14415	19626	17163	51444	26754	02418
99403	18004	06157	81596	51723	89763	55904	85749	52975	15559
67988	88969	19306	79505	54965	88877	88005	89037	33860	44892
02642	69283	41812	75205	91634	24729	88142	35869	57489	54104
72536	30460	18855	29434	24027	23749	72598	75174	40465	

16156 kHz, 29-01, 1300 UTC, FSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana.
UAL UAL UAL followed by opchat and a message

[illegible]

26562 46644 53055 31834 67966 27909 89481 58901 00145 33843
48542 22171 61293 88501 90930 02133 14002 80495 12986 21965
56552 88221 16634 15980 58922 28640 97003 86457 40689 15520
77405 97288 33003 38093 46361 77878 91845 96061 76374 35733
54731 51882 29122 01188 58066 86280 76761 52683 57324 67922
94042 96068 17260 73182 00899 96321 64310 16948 60223 85169
18410 80398 60502 93010 46370 46691 38005 78597 04039 80494
18201 54909 59417 12312 81119 34656 13914 13521 80304 43842
63938 73077 70085 76842 70010 11820 20829 91413 25578 95295
26861 67087 42726 31079 36769 75378 96972 61486 60737 35248
98333 87639 34627 52256 80839 85820 45488 64848 27702 02044
48177 46201 74310 35792 27773 35075 56249 48846 87494 94113
94518 60154 66778 19015 35156 12667 19231 47017 85433 23093
05122 38150 13829 50493 78130 27666 05950 44662 70997 73102
93607 60237 09811 44416 99219 47460 11575 30618 62729 55541
44782 61345 43239 09559 57649 66818 12535 46829 03723 24614
82688 23686 19536 66687 34936 28613 34001 45089 42011 62654
14225 79813 01121 73049 77448 37207 19756 51037 23774 12385
21519 29742 69387 14090 64159 43106 84957 75427 87007 31795
68896 38918 29983 07003 10169 89302 91378 08121 20342 32542
16599 15173 39564 44444 35044 01993 46148 37353 87324 41044
24465 18351 09999 95851 70819 37396 70012 61957 42003 48834
66034 42357 76213 34742 38880 68344 41020 63504 58194 01698
88069 82102 77601 79160 19219 65515 75491 85139 93777 71697
23642 63561 31556 75555 50862 04834 91399 80370 93840 68832
29896 30093 52384 29872 69949 70959 91249 54573 33906 35863
55732 48591 20912 49910 93219 33120 33206 80614 97889 37126
81017 81146 20736 16233 20767 00100 12114 34215 06263

M42b

12121 kHz, 01-01, 0800 UTC, CW

SX3H wkg F5KA: QSA NO. Asks F5KA to change freq. SX3H also changes frequency QSW 050L0 at 0807 UTC

5751 kHz, 03-01, 0815 UTC, FSK 50/500 + CW

RSN7D wkg G5OP. Headers like: 1 ? 326, 8 ? 326 long strings of ... OOOOOOO ... at 0821z; FSK CW "V", then changes to A1A for call; G5OP de SN7D, at 0824z again into F1B 50/500 with a message, ends txm at 0829utc, station also found operational on 4755 and 12135 kHz previously.

6905 kHz, 05-01, 1245 UTC, CW + FSK 50/500

Russian PtP station. IMTA wkg WL9P: WL9P DE IMTA QSA4 QTC1 ZZC ZVP K, passing msg. Opchat: CFM NIL QRU? K OK SLV. Receives msg 022 TS 1251 fm W19P

P07

7584 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1500 UTC
6926 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1510 UTC
5814 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1520 UTC
5471 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1530 UTC
5094 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1540 UTC
4639 kHz, 04-01/07-01/11-07/14-01/18-01/21-01/25-01/28-01, 1550 UTC

Q26 - Chinese military

12763 kHz, 02-01, 1100 UTC, 4+4 QPSK 75/1000 LSB

1985 20 51 0102 1645

7PFF---N8PV

1213 0030 5330 8657 4658 7147 9909 5719 3332 9805

2473 0702 4701 7632 8316 6933 4055 2139 4680 8459

9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D

9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D

9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329
MSG AGN
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
1985 20 51 0102 1645
7PFF---N8PV
1213 0030 5330 8657 4658 7147 9909 5719 3332 9805
2473 0702 4701 7632 8316 6933 4055 2139 4680 8459
MSG AGN
1985 20 51 0102 1645
7PFF---N8PV
1213 0030 5330 8657 4658 7147 9909 5719 3332 9805
2473 0702 4701 7632 8316 6933 4055 2139 4680 8459
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329
MSG AGN
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
ZNG5 ZNG5 ZNG5 DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
1985 20 51 0102 1645
7PFF---N8PV
1213 0030 5330 8657 4658 7147 9909 5719 3332 9805
2473 0702 4701 7632 8316 6933 4055 2139 4680 8459
MSG AGN
1985 20 51 0102 1645
7PFF---N8PV
1213 0030 5330 8657 4658 7147 9909 5719 3332 9805
2473 0702 4701 7632 8316 6933 4055 2139 4680 8459
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
9AU5 9AU5 9AU5 DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329

MSG AGN
9071 23 51 0102 1015
7PFF---DTF7
1213 0030 3640 5645 0903 9022 4788 5824 0237 6612
2999 4117 6213 5964 7985 6506 0411 8974 0772 2243
6297 5930 9329
AHR ZNN SK /

12763 kHz, 03-01, 1100 UTC, 4+4 QPSK 75/1000 LSB

0711 17 51 0103 1630
7994 24 51 0103 1735
7PFF---NMB6
1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
2351 8938 8297 7430 7431 6340 9222
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
7994 24 51 0103 1735
7PFF---DJB0
1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
7463 0002 4360 2028

MSG AGN
7994 24 51 0103 1735
7PFF---DJB0
1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
7463 0002 4360 2028
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
0711 17 51 0103 1630

7PFF---NMB6
1213 0030 6110 0660 3772 5293 6102 429, 7931 5950
2351 8938 8297 7430 7431 6340 9222

MSG AGN
0711 17 51 0103 1630
7PFF---NMB6
1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
2351 8938 8297 7430 7431 6340 9222
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
7994 24 51 0103 1735
7PFF---DJB0
1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
7463 0002 4360 2028

MSG AGN
7994 24 51 0103 1735
7PFF---DJB0
1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
7463 0002 4360 2028
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
0711 17 51 0103 1630
7PFF---NMB6

1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
 2351 8938 8297 7430 7431 6340 9222
 MSG AGN
 0711 17 51 0103 1630
 7PFF---NMB6
 1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
 2351 8938 8297 7430 7431 6340 9222
 LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
 LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
 LKQR LKQR LKQR DE GZ2D GZ2D GZ2D
 XYXYXYXYXY HR MSG GA
 7994 24 51 0103 1735
 7PFF---DJB0
 1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
 6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
 7463 0002 4360 2028
 MSG AGN
 7994 24 51 0103 1735
 7PFF---DJB0
 1213 0030 3680 8190 7783 6063 2547 1777 6030 4856
 6725 0687 9455 1948 8782 7613 4957 5335 0403 4415
 7463 0002 4360 2028
 T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
 T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
 T9GM T9GM T9GM DE GZ2D GZ2D GZ2D
 XYXYXYXYXY HR MSG GA
 0711 17 51 0103 1630
 7PFF---NMB6
 1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
 2351 8938 8297 7430 7431 6340 9222
 MSG AGN
 0711 17 51 0103 1630
 7PFF---NMB6
 1213 0030 6110 0660 3772 5293 6102 4298 7931 5950
 2351 8938 8297 7430 7431 6340 9222
 AHR ZNN SK /
 *KEQHJ

12763 kHz, 04-01, 1100 UTC, 4+4 QPSK 75/1000 LSB

5132 16 51 0104 1050
 7PFF---K53B
 1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
 5976 9794 0321 1529 3629 8292
 MSG AGN
 5132 16 51 0104 1050
 7PFF---K53B
 1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
 5976 9794 0321 1529 3629 8292
 TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
 TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
 TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
 XYXYXYXYXY HR MSG GA
 5132 16 51 0104 1050
 7PFF---K53B
 1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
 5976 9794 0321 1529 3629 8292
 MSG AGN
 5132 16 51 0104 1050
 7PFF---K53B
 1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
 5976 9794 0321 1529 3629 8292
 TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
 TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D

TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
AHR ZNN SK /
+ \$#
UCK TJ5K TJ5K DE GZ2VEZ2D
TJ5K TJ5K TJ+Z2D GZ2D GZ2D
TJ5ZTK TJ5K DE GZ2D GZ2D G ND
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B

1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN

5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
AHR ZNN SK /
+ \$#
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050

7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
MSG AGN
5132 16 51 0104 1050
7PFF---K53B
1213 0030 4420 4620 4992 7003 4685 5066 0144 5089
5976 9794 0321 1529 3629 8292
AHR ZNN SK /
+\$#
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K TJ5K TJ5K DE GZ2D GZ2D GZ2D
TJ5K

12763 kHz, 05-01, 1100 UTC, 4+4 QPSK 75/1000 LSB

LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN

9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
AHR ZNN SK /
JD
LELW LELW LELWODYGZ2D GZ2D
LELW LELWJKS2D GZ2D GZ2D
DJXYXYXYXY HR MSG GA
964422I TQ PQPT QTRP
7PBAM86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
LELW LELW LELW DE GZ2D GZ2D GZ2D
XYXYXYXYXY HR MSG GA
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
MSG AGN
9641 18 51 0105 1540
7PFF---M86P
1213 0030 1980 7846 0491 4507 9659 7554 5013 2881
4766 1953 6799 8362 3473 7068 8080 9200
AHR ZNN SK /

12763 kHz, 06-01, 1100 UTC, 4+4 QPSK 75/1000 LSB

5870 20 51 0106 1025
GQVV---2TQV
1213 0030 4780 8428 7925 6986 7056 1221 7628 7994
4994 5027 4140 7309 9830 4053 0253 6389 1899 4834
X02U X02U X02U DE 9ACX 9ACX 9ACX
X02U X02U X02U DE 9ACX 9ACX 9ACX
X02U X02U X02U DE 9ACX 9ACX 9ACX
XYXYXYXYXY HR MSG GA
5870 20 51 0106 1025
GQVV---2TQV
1213 0030 4780 8428 7925 6986 7056 1221 7628 7994
4994 5027 4140 7309 9830 4053 0253 6389 1899 4834
MSG AGN
5870 20 51 0106 1025
GQVV---2TQV
1213 0030 4780 8428 7925 6986 7056 1221 7628 7994

4994 5027 4140 7309 9830 4053 0253 6389 1899 4834
X02U X02U X02U DE 9ACX 9ACX 9ACX
X02U X02U X02U DE 9ACX 9ACX 9ACX
X02U X02U X02U DE 9ACX 9ACX 9ACX
XYXYXYXYXY HR MSG GA

12763 kHz, 22-01, 1058 UTC, 4+4 QPSK 75/1000 LSB

HZVC HZVC HZVC P9B8 P9B8
HZVC HNVC HZVC DE P9B8 P9B8
HZVC HZVCB8 P9B8
XYXYXYXYXY HR MSG GA
6072 27 51 0122 1845
W7LL---PZ4E
1213 0030 1000 1769 7305 1507 7929 47=7 0424 8327
6660 3905 3044 3969 4737 5973 1823 63YO QQEP
8957 0210 6194 7549 5182 044872615
MSE AGN
6072 27 51 0122 1845
(repeated 10x)

XPA1

14852/13952/11552 kHz, 02-01, 1310/1330/1350 UTC

895 895 895 000
07999 00001 00000 42270

14852/13952/11552 kHz, 07-01/09-01/14-01/16-01, 1310/1330/1350 UTC

895 895 895 1 895 895 895 1 895 895 895 1
00510 00177 80363 11522 69364 86271 62176 08121 22401 25553
76187 89380 86477 42718 68302 19253 72155 15902 22901 37171
80480 14925 25198 35055 63809 69155 96338 84607 58446 69068
92962 68975 65029 96418 55565 60718 30779 89898 68356 48908
97403 19070 09299 58754 65187 76680 44402 12876 80758 93537
19086 59405 68701 99358 88582 85889 98777 14382 37496 47583
94644 17965 70672 31423 26507 18025 13808 19424 77979 10681
04815 11312 58861 52057 05753 67901 47014 39509 97659 53293
22314 26243 11321 08359 20012 56236 06622 15304 30624 05493
14180 43655 40048 22345 66439 87844 00340 09086 41771 87579
30611 10094 62054 24406 12504 24341 73570 16384 76527 75209
04085 17233 00695 33968 32579 29201 96564 99281 47966 46757
88064 56229 18470 62222 86116 00816 83366 57049 38800 93124
43167 34721 62876 31488 54313 29604 91010 24679 74094 88427
55804 14786 76569 60598 23290 08322 16905 09963 75843 82708
86956 02994 16911 99106 34049 71813 19294 48471 72193 76657
67423 35633 63014 04175 43163 46286 39425 06330 54288 32151
68510 93629 88739 62983 97534 93969 10747 48178 66335 72322

14852/13952/11552 kHz, 21-01, 1310/1330/1350 UTC

895 895 895 000
02361 00001 00000 33260

14852/13952/11552 kHz, 23-01, 1310/1330/1350 UTC

895 895 895 000
09247 00001 00000 35665

14852/13952/11552 kHz, 28-01/30-01, 1310/1330/1350 UTC

895 895 895 1 895 895 895 1 895 895 895 1
06982 00301 62391 16245 98570 27874 42224 05795 01024 49529
27388 36847 41354 19580 90035 01887 12908 61324 91979 78084
98076 81567 81428 53177 19548 48463 63354 31543 11993 19174
13792 91782 79507 84750 88734 28559 03784 71468 58826 36740
88801 90377 18729 10703 57352 08100 28622 96315 59849 96095

52150 07249 47200 69912 30548 58878 30941 61817 32703 12572
01666 30076 01911 90785 95122 87386 84896 94618 81576 02353
93477 41437 32142 99891 86540 84885 97356 73309 91461 40365
40101 03053 79359 51584 64997 00964 57139 06780 62966 23748
18695 53111 54557 91701 44781 43828 00960 79133 08862 37523
66810 25499 24177 44389 47850 61702 09836 58705 40933 74951
34854 29920 52820 60531 74987 55028 40225 23061 83751 04452
83563 08349 11060 85266 64921 69333 77283 22311 39508 29325
62408 37087 88239 19497 16132 04995 78080 32006 41295 75285
21096 52436 77243 28436 61471 52938 09205 36693 60096 46946
48523 82592 73182 01892 91780 53423 26836 85008 45925 63959
08778 67239 75103 93444 87231 47156 85668 93152 95785 12239
62375 06511 07710 53570 75519 73136 09389 22838 41203 80594
72019 70269 43451 01072 96244 12776 11323 52924 63221 86095
77842 63421 91200 88996 22249 71697 29495 21515 44861 75273
13167 13678 94007 81091 48492 52247 56479 07896 33848 32210
90320 41540 04908 32029 81182 25740 21628 13417 93508 27945
99451 08050 37345 73017 56633 58709 88504 30734 28392 96920
35554 15645 62246 03051 97828 67695 97965 63020 96430 25118
64627 34814 00004 82171 75090 24880 37323 90154 52726 14317
98629 79361 41990 69807 39274 15973 98419 31809 81019 40723
51835 09751 04689 14279 33858 70933 82368 75796 17810 30384
55542 35323 04120 12538 05211 66787 23571 81354 04218 76701
38820 24212 06327 12582 33831 41969 05816 03161 32546 13521
12130 11153 31939 02202 04117 12827 18611 62362 29679 26136
80547 33578 20028 50511

XPA2

13384/12184/10984 kHz, 1100/1120/1140 UTC

13384/12184/10984 kHz, 01-01, 1100/1120/1140 UTC

07946 00001 00000 40663

13384/12184/10984 kHz, 07-01/08-01, 1100/1120/1140 UTC

08-01, 1100 UTC: off after 13 secs

00913 00048 90587 36655 33805 61339 84832 02677 56134 47599
19453 50383 24647 50244 35238 15736 71331 06168 95627 84571
27121 68793 35379 00475 84290 65995 18637 21080 45089 12814
32176 16241 44318 62582 64514 64736 77572 44115 50390 67754
81072 66992 74188 67954 81118 66673 44811 31152 90003 90571
37230

13384/12184/10984 kHz, 14-01, 1100/1120/1140 UTC

02800 00001 00000 35252

13384/12184/10984 kHz, 15-01, 1100/1120/1140 UTC

06425 00001 00000 35660

13384/12184/10984 kHz, 21-01/22-01, 1100/1120/1140 UTC

03081 00099 85829 62068 09235 90722 58731 17038 33060 00828
70008 56538 56038 63088 56223 50856 01342 57337 63131 30356
03388 33038 80888 30886 08632 55665 00810 13081 63035 86860
38146 06606 88065 43010 63063 76052 80705 60685 06860 85800
46659 22007 85588 80003 23075 52330 88333 98783 30870 00282
38384 77683 58535 05506 06360 88635 25880 33288 86050 68806
83808 66708 85507 06066 42060 55833 63350 58256 83806 02886
08703 03507 73837 67886 25279 33886 67027 83676 42420 06838
05765 19655 61148 08012 46422 34075 65212 36805 40326 00575
73088 60141 24785 95256 44555 80142 43749 11140 35268 34965
78528 11370

13384/12184/10984 kHz, 28-01/29-01, 1100/1120/1140 UTC

08323 00164 31581 27620 06195 29544 25954 49639 19098 95433
72927 06816 79430 59731 18606 12384 86469 96712 37641 74743
48643 50375 29013 61599 26692 02342 99057 70853 85560 60121
79334 90765 80917 62698 05019 07012 41610 89335 38651 39264
71090 40090 84062 44658 02946 86518 00944 18348 39566 22725
04486 22436 40893 33070 02511 57011 22916 98126 17325 26912
39664 47335 88238 22581 64533 44598 95907 80612 55068 73028
46735 18850 02624 72626 54240 96217 13852 62455 29675 05960
08243 53322 39307 42551 69331 95597 83541 11151 21915 40022
33986 00508 72330 33019 40097 71889 78809 56067 26628 78986
61729 33187 37659 47421 51909 11943 49879 99425 34409 60156
51361 63949 16320 15177 06778 10191 50738 80646 99867 46559
87385 75389 65662 76630 18591 76889 07250 89624 11661 30825
62292 54040 97122 46785 94857 06838 05858 87952 84444 74718
85871 24026 52078 70958 02766 88700 04126 38323 21670 46123
21236 11373 77764 45179 11577 60117 95151 70751 35110 08295
33367 38771 39494 25529 88663 91997 26233

10231/9331/8131 kHz, 1100/1120/1140 UTC

10231/9331/8131 kHz, 02-01, 1100/1120/1140 UTC

02020 00001 00000 10140

10231/9331/8131 kHz, 06-01/09-01, 1100/1120/1140 UTC

01852 00070 73180 83371 56424 65978 66536 20035 95615 61745
41477 67364 34709 23261 96132 21470 77908 31769 26520 19305
99792 95049 94597 28535 91929 42811 30116 05789 21666 38387
97246 37202 21740 95483 67133 28717 19912 49634 42035 29550
15280 16156 88307 69999 42605 82260 18572 38324 60556 73743
39769 47440 09431 54051 32577 93461 40483 33510 77574 52651
22106 16159 87076 64883 10374 55680 65535 49778 39099 45254
07757 51507 24755

10231/9331/8131 kHz, 13-01/16-01, 1100/1120/1140 UTC

05356 00130 25780 63837 67317 16773 84511 52190 45112 84758
44783 46020 48432 15783 75222 59209 67705 44348 30819 28604
10250 75513 23887 12606 23932 94350 88355 72920 82989 44570
70939 63034 66618 38931 94604 04121 23612 48319 66503 68745
30586 30617 91757 17519 46778 02796 95096 40129 68261 69387
94783 30697 67798 66571 70839 84124 99067 40892 69380 85710
60822 26881 08664 48100 14175 42986 96478 36340 93270 51407
51287 07062 46726 94747 41541 62154 29055 60404 42637 53824
36505 78782 97656 88396 41219 58764 80502 94647 66329 39979
86079 65132 00058 06915 39682 17786 55073 77082 03580 22615
46117 68372 16717 50770 86167 06641 85641 76740 34980 35119
86331 71397 30063 57905 85884 38134 65786 94746 46466 79503
65897 64455 59150 18852 03870 73924 77194 73757 80337 52976
14438 25655 17415

10231/9331/8131 kHz, 20-01, 1100/1120/1140 UTC

07696 00001 00000 10140

10231/9331/8131 kHz, 23-01, 1100/1120/1140 UTC

06125 00001 00000 10140

10231/9331/8131 kHz, 27-01/30-01, 1100/1120/1140 UTC

08790 00070 73383 44505 50581 08801 91224 51855 18460 74130
67436 96745 91132 65696 52238 39433 18127 60531 13617 58788
95361 29872 15880 78410 64593 88653 98936 04945 63468 74490
22716 34228 49274 86258 72399 27113 24500 43968 04950 17255
22063 12473 29726 86725 15863 92013 81497 99193 94877 92474
89262 84634 48727 50671 03814 53611 96564 65782 18471 07698

40892 72237 23798 63667 00399 26894 14102 29125 31669 76101
09040 67126 02043

13878/14978/16278 kHz, 1200/1220/1240 UTC

13878/14978/16278 kHz, 02-01, 1200/1220/1240 UTC

06504 00001 00000 35656

13878/14978/16278 kHz, 07-01/09-01, 1200/1220/1240 UTC

01645 00080 66768 37594 78135 25198 90916 21412 53405 85735
98921 21464 40489 21078 72679 30119 89994 68858 92171 59959
91616 54164 83085 41028 15777 85060 76469 44590 06927 62123
90997 26887 21604 19527 85255 61784 55574 48070 70589 31735
41418 70017 72205 69085 99652 76815 19562 85395 09035 80557
66870 23990 62556 90309 13937 71089 36155 24619 50509 78217
28241 01867 40241 93687 28393 87503 83714 55766 56840 18971
48158 48668 07480 14543 00759 22905 24127 23352 55860 59041
99179 98060 66073

13878/14978/16278 kHz, 14-01/18-01/21-01, 1200/1220/1240 UTC

00369 00180 20850 51305 06776 72019 02843 67161 35670 08169
08254 84478 51317 44186 55715 96040 49563 20237 60797 09696
27540 20884 93439 60488 64325 39164 76770 01901 70140 18892
63911 17198 18966 56439 92888 15892 27460 32554 80987 51994
22845 51287 50297 22200 60709 30429 17609 20230 77362 01487
69966 97869 91604 70994 23109 42594 45794 03040 48819 94277
55191 97454 81817 26765 23117 16901 89338 92720 55324 10092
22290 22732 71758 13667 36087 33049 15046 57972 72369 40203
90677 06731 75908 47937 37559 54632 36088 69514 59381 85461
15617 57927 75481 46052 30610 28764 25292 97292 92818 25638
47594 11713 73349 02629 24969 63099 70640 24579 57310 18629
93345 82456 59680 03502 44514 22883 93774 15124 79867 30994
33740 22802 78913 17422 30013 67813 65686 01170 27695 00793
00815 51704 30908 97975 18444 76092 88719 17100 66431 45096
81869 07377 34690 07589 32473 72155 94887 74605 62904 49856
40034 54683 07828 04665 98245 74445 56857 66429 79494 58478
42422 80140 61696 99208 18543 48973 04632 43750 23034 72653
74779 41133 73024 27900 17294 91840 62810 63181 67373 96697
78660 65338 00560

13878/14978/16278 kHz, 21-01/23-01, 1200/1220/1240 UTC

05779 00093 24555 06271 93495 40644 00245 58991 30501 04359
33643 48830 02331 13308 51262 40833 10444 44666 99658 01767
91339 24775 87009 28644 16632 39978 58571 46771 21030 99478
37846 99027 94585 58959 11614 90754 23695 00878 66037 35506
81785 76117 07147 85786 76657 19194 90314 04607 66306 08240
65710 13565 92735 00837 31542 31793 63283 26003 71300 31866
80457 88629 45560 40779 79344 29343 35439 10998 12870 30553
65999 65183 88500 92377 01505 40557 95224 37775 00159 59462
07730 29167 40617 67380 44552 93369 13355 44368 18501 77866
21904 82238 17612 24774 49007 17262

13878/14978/16278 kHz, 28-01/30-01, 1200/1220/1240 UTC

00864 00112 26950 46847 94386 68630 54978 77808 82003 94509
53481 71207 27764 56417 21277 31450 86889 73283 32309 00163
38334 54643 86610 43979 79432 88773 47090 76926 27840 42143
51096 72944 33466 55391 38333 32076 24359 59789 98526 15135
33012 83261 33592 25106 08216 43221 69843 76228 98793 18120
33635 70468 90899 06889 20363 45796 41468 47602 67015 38952
50285 00537 76473 23659 31139 64624 55996 84363 35930 63131
95144 52758 83287 48381 94918 60096 82890 87354 30424 47110
68571 99696 96344 29037 61623 25787 66241 59510 90922 75658
65726 82881 69424 29580 03917 87455 92055 33241 24326 72672

08609 66782 37489 28467 66345 31946 49639 51201 45891 23937
19045 75727 06416 49230 46305

9317/8117/7517 kHz, 1600/1620/1640 UTC
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9317/8117/7517 kHz, 03-01, 1600/1620/1640 UTC

00758 00064 59648 95076 96285 00969 24978 17333 26966 28172
07503 85375 34880 54006 06147 79776 95419 29364 53144 63098
46198 86717 37948 15227 59347 81957 17809 67946 01989 41523
82484 09966 48363 59666 15687 29617 86714 46439 86926 46644
75861 68996 47204 34734 81402 50013 80250 29220 10331 17616
59530 41471 85781 37768 08155 33991 79475 55566 68199 59325
70235 37835 56403 23705 77372 58093 25042

9317/8117/7517 kHz, 05-01, 1600/1620/1640 UTC

08185 00001 00000 34270

9317/8117/7517 kHz, 10-01, 1600/1620/1640 UTC

01716 00001 00000 37652

9317/8117/7517 kHz, 12-01/17-01, 1600/1620/1640 UTC

09758 00173 24987 83339 28011 08798 46684 83973 75634 40064
90647 22909 85943 75834 30498 20627 88349 78790 38541 37568
62358 69589 54104 66861 10847 99388 27487 98211 56728 17943
06215 89765 30345 89098 39952 72358 92642 42900 99997 55333
29484 54959 26114 73308 54108 80832 90280 58410 83597 90331
93141 77880 73307 81332 91904 34587 47168 47925 09009 57791
72576 04606 22468 43401 91250 90007 23894 88956 09046 91500
76593 28200 62230 51405 03388 35545 11044 64474 64903 86289
00474 20363 37092 44771 80405 39269 28620 59012 51823 70262
90549 78226 94158 47637 32570 14844 35959 47449 33635 62513
87040 34768 69702 75049 85318 01426 46460 01764 50178 67922
85341 08066 34849 00270 58260 92262 51972 13324 12867 50276
87731 09780 24572 21131 71495 65006 05998 95550 38706 89151
24044 17480 23163 06841 53040 68973 81284 35037 33686 62896
91115 48129 18116 20683 88069 01613 15961 98147 51617 66735
49436 36884 09068 31002 00852 46564 34782 70615 31159 12477
84185 56161 36109 23344 94163 37218 53578 49613 61018 16429
01811 14963 34879 34511 69419 16727

9317/8117/7517 kHz, 19-01, 1600/1620/1640 UTC

05498 00001 00000 37266

9317/8117/7517 kHz, 24-01, 1600/1620/1640 UTC

01157 00001 00000 35256

9317/8117/7517 kHz, 26-01/31-01, 1600/1620/1640 UTC

05683 00152 55041 47836 49797 07641 25887 04704 81468 56517
27811 29190 78718 77927 62423 97550 72380 01554 61332 50405
55105 78566 87827 40827 43288 16118 34753 38461 43789 91404
93610 29190 25682 70272 48143 52615 41333 76177 31306 90332
88685 15992 16940 01536 08489 49297 98324 88244 44149 77850
51926 04040 06808 97775 10257 59614 09788 76990 13294 97387
15611 94090 64563 84086 62190 29707 95703 26483 88460 47568
09784 18919 45334 08645 11224 45021 22533 92378 29583 41172
95758 54871 54475 81756 69365 87892 93346 00645 99753 71700
54548 16721 36350 37984 46068 47011 21361 80380 61210 35482
84869 80374 60997 77439 09405 42528 48138 86438 57385 50819
74773 94069 09704 83420 18794 28951 96353 11617 07892 47927
59054 87605 30544 45351 59954 60290 05833 80446 97599 58097
06872 90914 70424 40645 43488 49768 34047 84037 27114 47122
02107 19156 20644 25665 95731 33877 46849 42651 41150 60752
10074 09543 46793 44528 35564

11493/13393/13993 kHz, 05-01/07-01, 0800/0820/0840 UTC

00939 00641 83236 40546 58995 81914 14223 91189 61337 48305
26124 77819 81609 06587 74048 07620 72274 26098 60751 76928
10535 67741 55303 07553 44341 55702 58056 20905 10332 84462
93326 15823 74889 39091 47286 48247 60036 16707 54910 04910
91964 09829 56661 69694 59873 85409 05191 64650 95333 41800
00150 66959 63481 35282 33841 70431 04231 56739 46214 29121
84544 66246 53066 89359 12728 11825 43926 85276 54844 42585
61176 27635 51192 08134 32524 97319 32428 61319 08322 15302
37506 03845 48084 93541 28255 05564 56198 60053 31333 74894
72960 83389 17457 41158 09496 24814 56754 59631 51218 44230
27909 98620 79183 75040 72963 63199 39397 15023 66060 07637
35095 95095 37386 73379 43709 99704 96642 43093 39909 05154
96758 40164 73372 05257 05328 06488 05525 51286 99287 74833
62836 21046 84684 35423 29782 65110 99673 55441 46133 83104
67513 23946 13886 03611 04373 12589 13740 82631 56974 28177
31134 49796 72615 80068 82279 99225 03483 92036 98502 76803
94920 24610 85794 13730 92927 07128 54098 18170 66607 22794
95433 18731 29379 62728 66357 81437 08578 83225 03740 58021
08937 60890 46716 63443 53383 87112 21723 52073 10606 74750
81819 72452 58478 78273 69907 90979 10768 05253 33477 91836
14189 06997 87660 41552 27045 28539 31799 22769 62611 18210
63067 90910 59274 59825 33764 36633 75381 50130 13288 00663
34102 57310 77043 52097 10007 81403 51496 71786 25114 41453
80030 53755 22796 09293 40378 34273 17566 74231 75209 67845
61616 83949 55711 39570 51733 69247 32690 88392 36636 84619
67371 86144 62318 99722 42888 88019 88390 39581 09674 36858
18364 05708 33384 44672 88402 79653 77966 34928 08409 57560
63386 80499 94307 61574 58231 39449 35381 36789 60143 69596
11645 46947 74190 00267 81453 80968 05488 93002 27277 07640
49666 11511 65476 87399 54292 16745 41390 08290 93304 39879
18076 06672 45777 67434 98959 63485 08429 80226 68546 82915
51320 28140 46023 28148 43105 46532 56609 69513 97229 12360
34127 08652 21163 15491 09476 12176 93957 67842 61537 82619
90863 68817 82189 34351 68014 92275 23842 24442 67670 44658
64818 90340 71231 82188 96760 97478 22253 07053 37607 59313
09278 75359 44856 12208 60509 16327 98534 11342 62191 91280
50714 76666 90798 71706 75414 43808 38776 94995 26340 98455
99203 57391 38718 53444 90847 32688 51834 91497 12975 25098
36808 00211 56420 22751 02232 34978 01858 56924 21910 50135
26249 72988 94450 41168 74108 88295 52037 53558 91186 34777
98058 12526 87811 84388 40145 40653 00900 59302 88118 67774
07205 42325 51183 22443 67949 14927 38385 00841 39202 76625
16684 47825 74257 13036 49595 49593 37664 59344 55845 58826
96859 19608 89601 85005 86269 48870 21176 24722 90333 29234
55449 51876 41200 96110 93572 24827 45078 86324 64288 30580
25324 26095 32237 68083 78264 33832 84041 78057 68494 60690
11845 06567 19661 60120 27646 79838 09984 13881 48737 46991
48512 98646 26839 26907 05084 62640 66003 38272 22991 82212
06607 62378 80782 66945 20331 63414 78319 37597 47041 04163
84716 21707 52405 86548 55877 56826 72031 73695 38163 42055
79034 29120 91219 90974 79074 41985 31843 40901 93441 01879
66748 02619 81635 79719 17712 63477 21828 95360 52663 98233
59555 85832 10213 78509 54851 37422 09933 93003 96792 44881
25964 84752 73665 16486 90509 93817 03938 66018 79560 88549
32376 31550 48825 59757 86508 53238 76960 38699 66605 35245
49156 88717 43053 57235 62889 17437 18175 32161 63186 18367
31551 67787 16186 81755 65835 69892 09292 73425 42942 48951
27311 06666 39972 94191 23936 27393 43823 57503 37461 76883
64741 62072 29402 83802 30627 22493 75669 58050 61996 22862

80287 87436 81767 39684 92604 71012 17000 03125 31086 21491
44421 78615 74737 44505 55872 73473 25764 06846 95975 09751
51164 44262 38302 06246 93849 62564 27505 53730 82666 64033
16778 06360 93362 40133 87192 73823 21145 35765 36296 50789
26067 24881 46599 36654 43052 79887 64535 66268 08095 14556
98287 03872 53453 64362

11493/13393/13993 kHz, 12-01/14-01/19-01/21-01, 0800/0820/0840 UTC

00696 00510 39275 73861 57760 73149 40194 59013 26102 70604
35859 40865 81028 50681 46108 72015 27891 31501 75108 32217
18716 51197 98635 72181 39574 70289 42988 17859 58787 48952
26870 83185 04922 52951 37455 45118 36768 17858 15798 56041
80157 35550 71785 87322 55589 87621 01407 71844 88770 38223
99080 89644 00865 10532 67409 54073 13175 32074 74499 23977
03686 23352 89323 78727 76763 77783 64691 42952 19547 10685
99535 57833 74713 57239 04500 56450 16808 28444 97693 47376
45784 63274 13992 24616 59739 77546 51086 05168 51110 09077
20082 13280 29866 34838 76527 40579 49343 93778 71157 13553
24852 35219 27916 53481 01495 96617 75394 28996 93124 15905
72410 90714 12514 24154 71402 26829 66349 86091 04875 56916
65442 13186 31273 15762 73474 32360 51807 17840 92516 26528
08559 16501 36256 52153 80914 98634 40232 53758 98152 74713
53351 95149 09814 39594 94800 10309 60382 62203 19779 40994
55237 03057 13277 75670 13877 02931 02566 10821 34541 98851
85906 95999 63265 86648 70374 37606 07450 27770 61971 64993
42203 52284 56592 30224 41958 19887 30299 00736 38070 06692
75378 16284 25770 64464 16996 88540 95170 27344 03085 08620
28589 36597 73504 98667 56695 50247 38824 70829 60397 98400
53048 75535 41014 59099 73419 14809 21117 17984 93376 62807
55105 37166 75016 97199 57186 14090 45051 83773 20249 92901
12330 80021 77441 64437 03832 12397 52581 15383 24806 33665
99081 40275 75789 26895 82063 54607 22650 70291 42180 16379
19778 84375 73772 27005 07544 14814 63067 38492 05319 29627
37823 16716 69274 08170 32262 43894 89611 38282 83816 08196
02638 00592 24574 66020 00067 90946 60719 41126 73322 16400
67458 94755 44289 84876 37904 46458 66760 43962 04170 07568
19735 95916 08220 82587 84201 39847 20599 21575 66994 53997
03764 08185 84108 81317 47188 32408 91843 80510 94140 33010
20051 06956 21091 72673 46032 90253 26083 50993 02105 62885
55354 62867 50005 77177 10276 21150 15799 91188 86998 54314
55611 95625 94951 24415 81530 45022 97420 53027 75195 14775
05854 63885 81657 57461 57981 30669 88670 54131 78946 92188
42891 59598 04953 81318 16661 71984 45354 36987 51873 60807
33253 36452 57851 18655 58780 62822 24582 69903 38520 31622
68488 33149 59787 40152 91750 71169 29338 53367 24123 72787
53846 84314 67959 57233 03212 56536 32525 67106 17204 54967
04598 81451 51917 42744 04226 14186 80512 40832 53157 76658
22322 31448 78506 26201 35571 20551 64357 93915 43870 86468
73272 82534 97579 62080 54704 33101 78759 40196 93698 04761
03358 31643 09196 45680 15539 33961 21800 96270 20064 13508
58040 68583 30080 94467 00558 85397 24429 39969 32471 08254
36368 26743 60775 29279 16259 84030 79793 99349 64855 49756
47486 80737 34706 60730 39055 90246 48933 43676 80954 93387
72620 94007 87544 06991 81016 51455 62078 49887 66086 59055
32297 80534 25953 88103 18770 40593 05969 69417 87069 12705
96589 24840 17355 29983 88356 68939 39669 51249 29812 61932
24835 02908 14979 54687 87543 55962 71079 60345 95566 40677
37652 19158 07945 80972 01981 09335 59224 37779 48238 24047
94007 94841 99639 14813 48138 55299 63194 07743 00493 09565
43839 76958 54103

11493/13393/13993 kHz, 26-01/28-01, 0800/0820/0840 UTC

02127 00179 67184 75588 14500 71874 97859 27145 79088 58702
96137 26707 62724 08089 89027 02714 33580 00252 42148 24080
19512 00014 26835 46467 80517 79097 77026 25848 47557 82388
71071 40142 50611 74467 75997 39642 50541 15773 37607 42229
60255 90213 22347 11873 65058 77214 45302 32118 25885 58964
90529 08351 36245 83300 67072 73419 05891 55756 11965 70627
51341 26694 54715 23993 96600 98641 78171 93843 03919 24067
97114 34931 61903 14924 68434 46415 55907 70961 74576 58495
65773 70490 74429 93362 80553 87983 49000 93713 50119 89732
64014 78518 71948 84265 99028 00994 47837 74852 52027 46432
31819 43195 83231 27468 38120 80358 91668 25169 00572 28832
44770 80747 47558 10121 76919 27064 52939 58447 35863 86323
03108 13992 32607 12391 21966 76384 74972 07726 78858 53605
84930 69852 23001 40738 77133 08832 17794 06099 64304 68876
56410 69306 11152 19584 53042 30566 77952 65965 67455 55858
71835 87235 96541 11988 67778 03713 61045 71780 40786 55119
63485 30272 01277 76784 15023 16292 66697 40204 48078 84478
19773 75193 74814 50190 69459 75692 13885 69691 58086 29470
92064 23316

18482/17427/16201 kHz, 0910/0930/0950 UTC

18482/17427/16201 kHz, 05-01/07-01/12-01/14-01, 0910/0930/0950 UTC

00977 00088 58399 51506 35358 95146 64192 65561 21136 07116
96314 91002 15259 80621 35183 49185 81146 32974 84334 34595
91914 61264 81584 04706 47730 56937 84678 51238 76640 33987
45333 51169 29934 43006 40213 89853 62228 50876 00540 98711
36762 84336 60465 77678 55520 98248 30049 78990 11889 13217
69888 16677 29389 96757 45786 74804 82646 64553 67559 55866
90552 23435 83379 97256 92537 79920 96673 12202 39816 68227
34528 12316 40685 50387 94920 12949 19227 03337 35575 85290
59805 02525 91327 64552 43486 40889 00175 81728 04312 38410
45153

18482/17427/16201 kHz, 19-01, 0910/0930/0950 UTC

06465 00001 00000 35664

18482/17427/16201 kHz, 21-01, 0910/0930/0950 UTC

08720 00001 00000 34662

18482/17427/16201 kHz, 26-01/28-01, 0910/0930/0950 UTC

00882 00124 81804 35586 56106 50747 44420 41272 72205 25680
62939 02068 91496 42956 88223 87968 89187 32236 02569 49519
33176 02651 92415 14488 78930 92682 59571 02349 02984 38980
38585 71406 07235 62375 58304 04160 96705 09281 37798 29284
87373 20081 31290 38326 75191 52393 35958 25706 81519 35433
09514 72455 12011 99959 80085 34146 16067 80667 39339 87744
80686 09225 90527 78454 23429 69873 50668 39717 39411 73924
84212 12484 15034 82555 33800 27424 05954 22361 47368 00343
04302 79413 67572 82858 94298 39355 31777 80598 21794 29012
28640 72313 97902 76886 71898 13259 96657 44571 83570 77212
21108 07531 20310 88718 87846 62051 82279 08965 39277 69047
67833 11535 10277 45075 65609 30200 83898 06978 45114 04627
53529 89448 30821 99540 11132 44345 07624

18546/17436/16137 kHz, 0900/0920/0940 UTC

18546/17436/16137 kHz, 01-01, 0900/0920/0940 UTC

09793 00001 00000 36272

18546/17436/16137 kHz, 08-01/10-01, 0900/0920/0940 UTC

00935 00048 02723 04769 22361 48333 96177 58411 82104 30483
74775 26836 88574 59982 61856 98113 75825 95404 23254 69557
44664 01826 98837 99933 63108 71585 63893 35891 66237 99157
55034 13228 80185 55915 95095 40971 37152 11465 57534 41020
61483 61766 02848 67868 59121 46451 36018 50833 89709 74482
43705

18546/17436/16137 kHz, 15-01/17-01, 0900/0920/0940 UTC

00852 00090 39964 52272 50008 69145 56936 64893 96273 68718
78268 04554 59170 18230 18225 23728 34407 41227 81496 40590
80650 39206 24891 70532 27220 29840 76097 62306 91636 12080
48067 98778 59319 94789 05502 96117 11101 19360 20310 93733
26053 31589 62057 28130 89134 51556 93450 96071 51908 82376
30213 27519 72655 23039 52505 91354 72449 53419 03585 77702
34931 47549 07387 88175 22157 09114 24873 12909 67272 55324
33642 98668 07010 27394 01866 39643 72204 95664 12036 08507
88118 95417 97814 09088 44963 04678 78691 98434 47512 27582
86544 05526 41075

18546/17436/16137 kHz, 22-01, 0900/0920/0940 UTC

07958 00001 00000 41664

18546/17436/16137 kHz, 24-01, 0900/0920/0940 UTC

08914 00001 00000 37661

18546/17436/16137 kHz, 29-01, 0900/0920/0940 UTC

06840 00001 00000 35262

18546/17436/16137 kHz, 31-01, 0900/0920/0940 UTC

07820 00001 00000 35261

11456/10614/9256 kHz, 1700/1720/1740 UTC
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11456/10614/9256 kHz, 01-01, 1700/1720/1740 UTC

07628 00001 00000 30152

11456/10614/9256 kHz, 06-01, 1700/1720/1740 UTC

05758 00001 00000 40662

11456/10614/9256 kHz, 08-01, 1700/1720/1740 UTC

02569 00001 00000 40260

11456/10614/9256 kHz, 13-01/15-01, 1700/1720/1740 UTC

00998 00185 60633 80042 12240 73662 77903 10642 82588 28604
49112 87592 88330 08832 55154 30803 02521 08284 03074 84858
20525 06062 39378 90007 02507 68345 37215 88686 95682 05411
81161 50210 25882 88822 92745 93925 28060 56746 08006 80274
52055 56935 64187 01588 53065 28759 00304 50988 90484 84220
40740 35722 28082 66553 37573 44871 64132 92055 00282 83804
94504 36367 18448 59855 81177 21133 45261 33887 96047 12838
53222 64068 06498 47981 35102 15360 03085 98689 63512 37793
68382 71155 91887 71812 34049 36068 03113 62700 08606 58908
55268 67568 10517 93486 26651 82310 69614 64642 06788 82220
07572 53646 85571 09909 50740 86794 28070 16456 75378 41170
37769 65966 56019 74066 08284 18032 39221 32768 19760 99364
87764 70953 73960 77052 39100 40921 86156 18852 77756 57387
08288 58370 86139 28747 07896 47078 48614 25713 64120 07803
02635 18652 20742 06533 54292 41783 20500 75193 84393 49082
27208 32396 95581 64497 75271 18520 57475 85762 26126 71559
98784 85940 56977 80360 49330 23487 42630 05398 40543 97691
74980 58086 53050 16269 25527 06600 99656 00651 91828 93474
69009 05401 63815 73308 43487 32538 36730 03036

11456/10614/9256 kHz, 20-01, 1700/1720/1740 UTC

08033 00001 00000 32663

11456/10614/9256 kHz, 22-01, 1700/1720/1740 UTC

05465 00001 00000 35663

11456/10614/9256 kHz, 27-01/29-01, 1700/1720/1740 UTC

07508 00166 32484 36528 10648 11607 82650 82681 20488 56769
08312 73716 58710 89854 26631 10126 29415 73462 67437 28529
05778 08260 98704 97214 61275 97183 14899 92402 82833 09164
40409 10624 97994 64229 19751 26838 06520 03380 25394 74537
32827 32368 54068 82933 72845 32175 92294 38366 51487 00070
88598 02134 26531 39852 04823 73643 86075 38700 36371 70091
35619 77180 21300 99384 82812 62281 73088 27783 92587 89081
26416 63675 31454 95499 67091 84756 21047 45747 60850 05703
91942 79434 36396 10766 48573 83048 30962 39891 47049 11221
46464 67869 19288 57869 02689 67365 37366 17571 57953 63986
17916 98514 35890 89298 81091 99121 52833 49439 71580 77151
40634 87913 37829 78598 57718 26276 65943 26614 41160 72906
07259 10501 89536 40309 32901 64427 56403 46336 63801 18468
64563 75234 07766 58824 17268 67984 91113 50585 43039 35766
44666 25449 77347 38552 77643 28041 86245 30134 20086 97096
74653 27158 36559 63429 78995 71333 07815 63341 95990 48553
12506 45634 25309 60931 21379 81520 71911 21420 31164

XPB1

20069 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1300 UTC
19369 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1310 UTC
18269 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1320 UTC
17469 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1330 UTC
16269 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1340 UTC
15969 kHz, 02-01/06-01/09-01/13-01/16-01/20-01/23-01/27-01/30-01, 1350 UTC

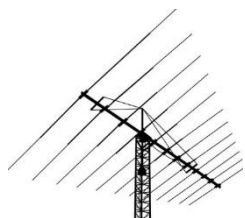
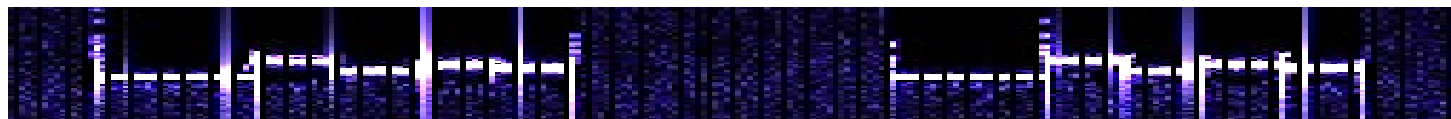
19343 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0600 UTC
18243 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0610 UTC
17443 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0620 UTC
16243 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0630 UTC
15843 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0640 UTC
14443 kHz, 05-01/06-01/12-01/13-01/19-01/20-01, 0660 UTC

Frequencies changed on January 26.

19461 kHz, 26-01/27-01, 0600 UTC
19261 kHz, 26-01/27-01, 0610 UTC
18261 kHz, 26-01/27-01, 0620 UTC
16261 kHz, 26-01/27-01, 0630 UTC
15861 kHz, 26-01/27-01, 0640 UTC
14961 kHz, 26-01/27-01, 0660 UTC

X--

19457 kHz, 14-01, 1126 UTC
18648 kHz, 14-01, 1132 UTC
17423 kHz, 14-01, 1136 UTC
16172 kHz, 14-01, 1140 UTC
15619 kHz, 14-01, 1144 UTC
18923 kHz, 27-01, 1254 UTC
15622 kHz, 27-01, 1302 UTC
13392 kHz, 27-01, 1306 UTC
19628 kHz, 27-01, 1334 UTC



DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

14755 kHz, 14-01, 0920 UTC, RFSM-8000
 17440 kHz, 14-01, 1321 UTC, RFSM-8000
 18455 kHz, 14-01, 1355 UTC, RFSM-8000
 14755 kHz, 15-01, 0920 UTC, RFSM-8000
 17440 kHz, 15-01, 1323 UTC, RFSM-8000
 18455 kHz, 15-01, 1356 UTC, RFSM-8000
 14755 kHz, 16-01, 0920 UTC, RFSM-8000
 17440 kHz, 16-01, 1322 UTC, RFSM-8000
 18455 kHz, 16-01, 1358 UTC, RFSM-8000
 14755 kHz, 19-01, 0923 UTC, RFSM-8000
 17440 kHz, 19-01, 1321 UTC, RFSM-8000
 18455 kHz, 19-01, 1400 UTC, RFSM-8000
 13974 kHz, 21-01, 0925 UTC, RFSM-8000
 13962 kHz, 21-01, 0925 UTC, RFSM-8000
 14755 kHz, 21-01, 0930 UTC, RFSM-8000
 17440 kHz, 21-01, 1330 UTC, RFSM-8000
 13974 kHz, 21-01, 0925 UTC, RFSM-8000
 13962 kHz, 21-01, 0925 UTC, RFSM-8000
 14755 kHz, 21-01, 0930 UTC, RFSM-8000
 17440 kHz, 21-01, 1330 UTC, RFSM-8000
 14755 kHz, 27-01, 0923 UTC, RFSM-8000
 17440 kHz, 27-01, 1322 UTC, RFSM-8000
 18455 kHz, 27-01, 1358 UTC, RFSM-8000
 14755 kHz, 29-01, 0924 UTC, RFSM-8000
 17440 kHz, 29-01, 1329 UTC, RFSM-8000
 18455 kHz, 29-01, 1356 UTC, RFSM-8000

Diplomatic stations: North Korea

11090 kHz, 01-01, 0818 UTC, DPRK ARQ 600/600 LSB
 14200 kHz, 03-01, 0729 UTC, DPRK ARQ 600/600 LSB
 15500 kHz, 05-01, 1313 UTC, DPRK ARQ 600/600 LSB
 11045 kHz, 05-01, 1357 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 05-01, 1400 UTC, DPRK ARQ 600/600 LSB
 11045 kHz, 05-01, 1417 UTC, DPRK ARQ 600/600 LSB
 12850 kHz, 05-01, 1504 UTC, DPRK ARQ 600/600 LSB
 12850 kHz, 05-01, 1505 UTC, DPRK ARQ 600/600 LSB
 12850 kHz, 05-01, 1510 UTC, DPRK ARQ 600/600 LSB

Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Prague
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK embassy Warszawa
 DPRK embassy Moscow wkg DPRK embassy Bucharest (off 1515z)
 DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13850 kHz (off 1509z)
 DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13850 kHz (off 1512z)

13800 kHz, 06-01, 0732 UTC, DPRK ARQ 600/600 LSB
 13120 kHz, 06-01, 0804 UTC, DPRK ARQ 600/600 LSB
 13122 kHz, 06-01, 0806 UTC, DPRK ARQ 1200/600 LSB
 13200 kHz, 06-01, 0814 UTC, DPRK ARQ 600/600 LSB
 13120 kHz, 07-01, 0803 UTC, DPRK ARQ 600/600 LSB
 14250 kHz, 07-01, 0803 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 08-01, 0704 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 08-01, 0714 UTC, DPRK ARQ 600/600 LSB
 13200 kHz, 08-01, 0822 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 08-01, 1330 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 09-01, 0702 UTC, DPRK ARQ 1200/600 LSB
 14150 kHz, 09-01, 0713 UTC, DPRK ARQ 600/600 LSB
 14200 kHz, 09-01, 0729 UTC, DPRK ARQ 1200/600 LSB
 14300 kHz, 12-01, 1102 UTC, DPRK ARQ 600/600
 14150 kHz, 12-01, 1300 UTC, DPRK ARQ 600/600
 14150 kHz, 13-01, 0727 UTC, DPRK ARQ 600/600
 14620 kHz, 14-01, 0817 UTC, DPRK ARQ 1200/600
 14250 kHz, 22-01, 0808 UTC, DPRK ARQ 600/600 LSB
 12890 kHz, 22-01, 0818 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 22-01, 1026 UTC, DPRK ARQ 600/600 LSB

13200 kHz, 28-01, 0812 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK embassy Prague
 DPRK embassy Rome wkg DPRK embassy Moscow. QSX 13122 kHz
 DPRK embassy Moscow wkg DPRK embassy Rome. QSX 13120 kHz
 DPRK embassy Moscow wkg DPRK embassy Warszawa
 DPRK embassy Bucharest wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Warszawa
 DPRK embassy Moscow wkg DPRK embassy Sofia
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Prague
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Warszawa wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva

DPRK embassy Moscow msg 224 to DPRK embassy Warszawa. QSY freqs
 11400, 13400 kHz

Message 224, 240 groups

20092 02326 35281 19247 59201 42772 57424 18420 07611 24084
 37544 71517 75051 95197 32611 17644 63877 29589 53497 50483
 33695 66055 48333 43705 62944 99965 44648 33831 54739 17693
 78356 00850 68114 42018 42353 83311 01314 19370 19988 88463
 04382 14216 96784 54175 88345 15140 66818 12417 69592 96243
 19869 77847 26174 59418 49059 03672 47146 62088 15679 37973
 81669 86667 29106 60318 53387 14723 83598 94793 03950 37604
 39265 25908 07673 48484 86902 37435 30890 76277 25374 37090
 83413 88865 64666 41726 15342 19856 74661 19910 71346 53889
 70001 41028 83354 91736 19106 25393 41088 01010 80220 69125
 93519 48130 08339 16653 95290 05524 00711 04615 77585 70170
 70574 25963 27153 05816 05971 13789 69223 89222 03151 59947
 24898 76874 86973 26122 62550 96031 75934 21221 58453 99333
 15731 31224 41338 62335 63743 54990 61053 02890 97233 74013
 11055 41155 74109 06342 71359 72626 53094 15490 42641 62823
 83590 19388 48251 16277 09305 28748 25044 13185 37143 81565
 76948 49668 32377 12762 20155 74489 34581 09235 84478 07222
 95658 57737 48540 81353 24403 41869 12193 51546 46188 18581
 19567 98089 95280 92377 40873 94712 48164 95338 98738 72500
 25041 78391 91679 30598 05631 92134 36569 31323 55918 02757
 15741 06913 94249 79178 72555 78750 11544 75958 06736 86377
 32649 11006 04442 40253 48951 27947 57518 22285 97872 80446
 18343 42308 51711 05080 17092 74758 55417 47778 09686 91321

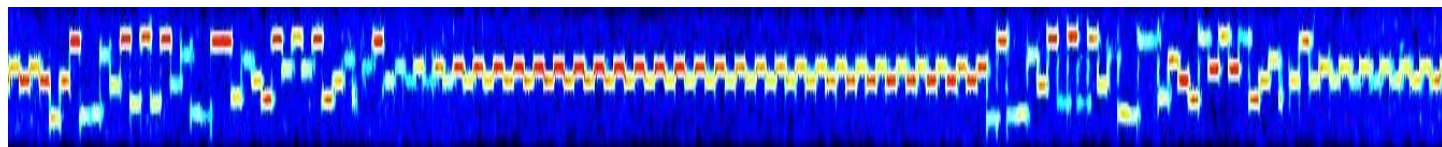
16200 kHz, 31-01, 0728 UTC, DPRK ARQ 1200/600 LSB
 13120 kHz, 31-01, 0806 UTC, DPRK ARQ 1200/600 LSB
 13200 kHz, 31-01, 0810 UTC, DPRK ARQ 600/600 LSB
 15500 kHz, 31-01, 0825 UTC, DPRK ARQ 600/600 LSB
 15555 kHz, 31-01, 0825 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 31-01, 1230 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Bucharest wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Prague

Diplomatic stations: Russia

11078 kHz, 09-01, 0806 UTC, MFSK-66	Russian diplo
11088 kHz, 09-01, 0821 UTC, MFSK-66	Russian diplo
17523 kHz, 13-01, 0813 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
20815 kHz, 13-01, 1020 UTC, Serdolik v2	Russian diplo

20811 kHz, 13-01, 1021 UTC, Serdolik v2	Russian diplo. Selcal
20815 kHz, 13-01, 1023 UTC, Serdolik v2	Russian diplo. Selcal
20811 kHz, 13-01, 1024 UTC, Serdolik v2	Russian diplo. Selcal
20815 kHz, 13-01, 1025 UTC, Serdolik v2	Russian diplo. Selcal
20813 kHz, 13-01, 1034 UTC, MFSK-6	MFA Moscow 216354: Russian Consulate General Chennai (not in sync with 17470)
17470 kHz, 13-01, 1045 UTC, MFSK-6	MFA Moscow 216354: Russian Consulate General Chennai (not in sync with 20813)
20815 kHz, 13-01, 1124 UTC, Serdolik v2	Russian diplo



Serdolik v2 selcal

20815 kHz, 13-01, 1131 UTC, MFSK-6	MFA Moscow 216354: Russian Consulate General Chennai
17520 kHz, 13-01, 1139 UTC, MFSK-6	MFA Moscow 612534: Russian embassy Ashgabat
14970 kHz, 13-01, 1206 UTC, MFSK-6	MFA Moscow 216354: Russian Consulate General Chennai
20334 kHz, 14-01, 0749 UTC, MFSK-6	MFA Moscow 164253: Russian embassy Addis Ababa
11483 kHz, 14-01, 0824 UTC, MFSK-6	MFA Moscow 412356: Russian embassy Budapest
11153 kHz, 14-01, 0851 UTC, MFSK-6	MFA Moscow 465132: Russian embassy Sofia
13419 kHz, 14-01, 0853 UTC, MFSK-6	MFA Moscow 465132: Russian embassy Sofia
14812 kHz, 14-01, 0904 UTC, MFSK-6	MFA Moscow clg 263145: Russian embassy Prague
14377 kHz, 19-01, 0832 UTC, MFSK-6	MFA Moscow clg 432516: Russian embassy Bern
12177 kHz, 23-01, 0926 UTC, MFSK-6	MFA Moscow clg 356412: Russian embassy Berlin
20605 kHz, 23-01, 1010 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan
15810 kHz, 25-01, 1025 UTC, MFSK-6	MFA Moscow clg 145632: Russian embassy Algiers
17468 kHz, 26-01, 0801 UTC, Serdolik v2	Russian diplo
17466 kHz, 26-01, 0802 UTC, Serdolik v2	Russian diplo
17475 kHz, 26-01, 0811 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
17475 kHz, 26-01, 0811 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
17466 kHz, 26-01, 0813 UTC, Serdolik v2	Russian diplo
20813 kHz, 27-01, 1014 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
17470 kHz, 27-01, 1021 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
14970 kHz, 27-01, 1032 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
17470 kHz, 27-01, 1036 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
17520 kHz, 27-01, 1154 UTC, MFSK-6	MFA Moscow clg 612534: Russian embassy Ashgabat
20334 kHz, 28-01, 0746 UTC, MFSK-6	MFA Moscow clg 164253: Russian embassy Addis Ababa

Diplomatic stations: U.S.A.

11168.6 kHz, 16-01, 1418 UTC, Mil-STD-188-141A	KWX91: US Consulate General Edinburgh clg KWX92 US embassy London
18248.6 kHz, 21-01, 1110 UTC, Mil-STD-188-141A	KWP97: US embassy Algiers clg KWP95: unid embassy
18248.6 kHz, 21-01, 1110 UTC, Mil-STD-188-141A	KWP95: Unid US embassy clg clg KWP97: US embassy Algiers
20810.6 kHz, 21-01, 1920 UTC, Mil-STD-188-141A	KWN: Unid (incomplete call) clg WNG838: Unid embassy
20810.6 kHz, 21-01, 1924 UTC, Mil-STD-188-141A	KWN93: US embassy Bogota clg KWL98: unid embassy
11168.6 kHz, 22-01, 0925 UTC, Mil-STD-188-141A	KWX96: US embassy Lisboa clg KWA22: US Consulate Ponta Delgada
11168.6 kHz, 22-01, 0933 UTC, Mil-STD-188-141A	KWX96: US embassy Lisboa clg KWP95: unid embassy
20810.6 kHz, 27-01, 1321 UTC, Mil-STD-188-141A	KWN96: US embassy Lima clg KWN93: US embassy Bogota
11168.6 kHz, 30-01, 1534 UTC, Mil-STD-188-141A	KWX91: US Consulate General Edinburgh clg KWX92: US embassy London



SPECIAL PURPOSE RADIO STATIONS

In this section we cover Clandestine stations, Propaganda stations, Jammers, the Russian-Ukrainian radio war, PSYOP broadcasts, and other related radio stations.

4625 kHz, 19-01, various times:

Pirate radio station on top of the buzzer playing pop music and also Swan Lake was heard. It also sent waterfall images with the text "I love Russia". You can see the Buzzer signal between the words.

7055 kHz, 21-01, 1722 UTC

4625 kHz, 21-01, 1733 UTC

Ukrainian anti Moscow song. Loop transmission

Pirates playing music on top of the Buzzer

7500 kHz, 21-01, 1710 UTC

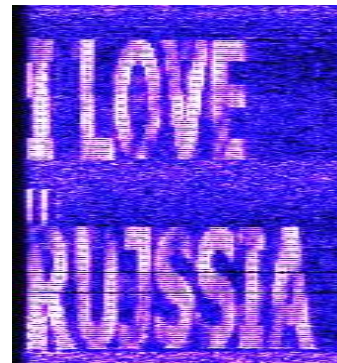
13755 kHz, 24-01, 1520 UTC

13755 kHz, 26-01, 1438 UTC

Radio Farda heavily jammed by Iran

Radio Farda heavily jammed by Iran

Radio Farda. The Iranian jammer kicked in at 1447 UTC



8071 kHz, 21-01, 1549 UTC

i.p., was also on this freq in previous days. Unid station. Russian

film music broadcast. Loop transmission

4141 kHz, 21-01, 1754 UTC

Same loop transmission as on 8071 kHz

6255 kHz, 21-01, 1800 UTC

Same loop transmission as on 8071 kHz

8071 kHz, 30-01, 1710 UTC

S30 pip followed by a carrier and voice

test, then pip again followed by a loop transmission of a Russian movie song. Off at 1817 UTC



4141 kHz, 30-01, 1720 UTC

S30 pip, off at 1835 UTC

6250 kHz, 30-01, 1725 UTC

Russian movie song

4141 kHz, 31-01, 1745 UTC

S30 pip till 1752z, then the same Russian movie song (loop txm). Off at 2000z

8071 kHz, 31-01, 1745 UTC

S30 pip till 1752z, then the same Russian movie song (loop txm). Off at 2000z

Note: 4141, 6250, 6255 and 8071 kHz are related to the now defunct Stalingrad Clock and affiliated stations.



UTILITY ROUND-UP

Unid station / New Buzzer. According to some it is a jamming device but they are on so many frequencies at the same time and when they appear on a frequency there is often no other station on that same frequency. So are they jamming silent frequencies ??? So far these stations are a mystery for me.

All in buzzing mode (BW 3kHz)

6780/8049 kHz, 01-01, 2040 UTC. Third freq not found

8049/8210/8400 kHz, 02-01, 1429 UTC

6780/8049 kHz, 02-01, 1807 UTC. Third freq not found

6830/8049/8720 kHz, 03-01, 1517 UTC. Spur on 6840 kHz

6830/8049/8400 kHz, 04-01, 1634 UTC

6830/8049 kHz, 05-01, 1527 UTC. Third freq not found. Spurs on 6840, 7254, 7349 kHz at 1527z. The spurs were gone at 1650z

6830/8049 kHz, 08-01, 1706 UTC

6830/8049 kHz, 09-01, 1715 UTC

6345/7255/8645 kHz, 11-01, 1756 UTC

6542 kHz, 20-01, 1455 UTC

Buzzing mode (BW 5kHz)

8050 kHz, 20-01, 1455 UTC

Buzzing mode (BW 3kHz)

8217 kHz, 20-01, 1455 UTC

Buzzing mode (BW 5kHz)

8220 kHz, 20-01, 1455 UTC

Continuous mode (BW 5kHz)

8360 kHz, 20-01, 1455 UTC

Buzzing mode (BW 3kHz)

8400 kHz, 20-01, 1455 UTC

Buzzing mode (BW 3kHz)

8424 kHz, 20-01, 1455 UTC

Buzzing mode (BW 5kHz)

8720 kHz, 20-01, 1455 UTC

Buzzing mode (BW 3kHz)

8050 kHz, 20-01, 1640 UTC

Continuous mode (BW 5kHz)

8360 kHz, 20-01, 1640 UTC

Buzzing mode (BW 3kHz)

8400 kHz, 20-01, 1640 UTC

Continuous mode (BW 5kHz)

8424 kHz, 20-01, 1640 UTC

Buzzing mode (BW 5kHz)

8720 kHz, 20-01, 1640 UTC

Continuous mode (BW 5kHz)



Buzzing mode



Continuous mode

8050 kHz, 20-01, 1640 UTC	Continuous mode (BW 5kHz)
8217 kHz, 20-01, 1640 UTC	Continuous mode (BW 5kHz)
8217 kHz, 21-01, 0618 UTC	Buzzing mode into continuous mode at 0620z. (BW 5kHz)
8209 kHz, 21-01, 0618 UTC	Buzzing mode (BW 3kHz)
8645 kHz, 21-01, 1647 UTC	Buzzing mode (BW 3kHz)
8360 kHz, 21-01, 1647 UTC	Continuous mode (BW 5kHz)
8209 kHz, 21-01, 1647 UTC	Buzzing mode (BW 5kHz)
8220 kHz, 21-01, 1647 UTC	Continuous mode (BW 3kHz)
8213 kHz, 21-01, 1710 UTC	Buzzing mode (BW 5kHz)
6530 kHz, 21-01, 1710 UTC	Buzzing mode (BW 3kHz)
7580 kHz, 21-01, 2100 UTC	Buzzing mode (BW 5kHz)
7600 kHz, 21-01, 2100 UTC	Buzzing mode (BW 5kHz)
9300 kHz, 24-01, 1650 UTC	Continuous mode (BW 5kHz)



RUSSIAN MILITARY

Monolith stations

4625 kHz, 05-01, 1225 UTC S28 Buzzer with a message: НЖТИ НЖТИ 87459 ВКРАПЛЕНИЕ 6790 4701 (NVTI NVTI 87459 WKRAPLENXE 6790 4701

7980.3 kHz, 05-01, 1227 UTC. Buzzer morse channel. Repeat of the Buzzer's voice message.
Strategic flash message to NVTI: XXX XXX NVTI NVTI 87459 WKRAPLENXE 6790 4701 K

5367 kHz, 10-01, 0630 UTC S32 Squeaky Wheel

5448 kHz, 11-01, 0703 UTC S30 Pip

4625 kHz, 16-01, 1800 UTC S28 Buzzer tone generator problems

4325 kHz, 16-01, 1805 UTC Dash marker

3363.5 kHz, 16-01, 1807 S32 Squeaky Wheel voice traffic followed by Pip marker

3756 kHz, 16-01, 1810 UTC S30 Pip marker

Morse transmissions

14410 kHz, 21-01, 1035 UTC

UUUUU RDL RDL RDL 52173 18622 52173 18622 52173 18622 K

14410 kHz, 21-01, 1054 UTC

UUUUU RDL RDL RDL 20663 72387 20663 72387 20663 72387 K

14410 kHz, 21-01, 1135 UTC

UUUUU RDL RDL RDL 69920 08247 69920 08247 69920 08247 K

14410 kHz, 21-01, 1150 UTC

UUUUU RDL RDL RDL 96156 05582 96156 05582 96156 05582 K

14410 kHz, 26-01, 1043 UTC

RDL RDL RDL 69108 68169 69108 68169 69108 68169 K

14410 kHz, 26-01, 1052 UTC

RDL RDL RDL 88618 41767 88618 41767 88618 41767 K

14410 kHz, 26-01, 1107 UTC

RDL RDL RDL 19408 18545 19408 18545 19408 18545 K



LOGBOOK

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
E11	2-12	0645	12385	Tue	512/00 Out	USB	(PY)
E11	4-12	0645	12385	Thu	no TX, Polish 11 outage	USB	(PY)
E11	9-12	0645	12385	Tue	518/00 Out	USB	(Subilo)
E11	9-12	0715	14975	Tue	631/00 Out	USB	(Subilo)
E11	11-12	0645	12385	Thu	510/00 Out	USB	(Subilo)
E11	12-12	0715	14975	Fri	630/00 Out	USB	(Subilo)
E11	15-12	0645	14972	Mon	415/00 Out	USB	(Subilo)
E11	16-12	0645	12385	Tue	518/00 Out	USB	(Subilo)
E11	16-12	0715	14975	Tue	635/00 Out	USB	(Subilo)
E11	17-12	0645	14972	Wed	416/00 Out	USB	(Subilo)
E11	18-12	0645	12385	Thu	515/00 Out Out	USB	(Subilo)
E11	19-12	0715	13911	Fri	Null	USB	(PY)
E11	23-12	0645	12385	Tue	511/00 Out	USB	(Subilo)
E11	23-12	0715	13911	Tue	Null	USB	(PY)
E11	25-12	0645	12385	Thu	null	USB	(FD)
E11	26-12	0715	13911	Fri	Null	USB	(PY)
E11	29-12	0645	13911	Mon	Null	USB	(PY)
E11	30-12	0645	12385	Tue	514/00 Out	USB	(PY)
E11	30-12	0715	13911	Tue	Null	USB	(PY)
E11	31-12	0645	13911	Wed	Null	USB	(PY)
E11a	22-12	0645	13911	Mon	Message	USB	(PY)
E11a	24-12	0645	13911	Wed	Message	USB	(PY)
F03j	2-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(FD)
F03j	2-12	0620	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(FD)
F03j	4-12	0615	8800	Thu	no TX, Polish 11 outage	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	4-12	0620	8800	Thu	no TX, Polish 11 outage	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	9-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	9-12	0620	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	11-12	0615	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	11-12	0620	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	16-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)

F03j	16-12	0620	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	18-12	0615	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	18-12	0620	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	19-12	0850	19537	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	19-12	0855	19537	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	23-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	23-12	0810	19537	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	23-12	0815	19537	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	25-12	0615	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	26-12	0855	19537	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	30-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	30-12	0810	19537	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	30-12	0815	19537	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03I	9-12	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	12-12	0850	17120	Fri	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	16-12	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(PY)
F03I	16-12	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(PY)

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
BUL	14-1	0920	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-1	1321	17440	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-1	1355	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	15-1	0920	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	15-1	1323	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	15-1	1356	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	16-1	0920	14755	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	16-1	1322	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	16-1	1358	18455	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-1	0923	14755	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-1	1321	17440	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-1	1400	18455	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	21-1	0925	13962	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	21-1	0925	13974	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	21-1	0930	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	21-1	1330	17440	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-1	0923	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-1	1322	17440	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-1	1358	18455	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	29-1	0924	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	29-1	1329	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	29-1	1356	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)

E06	10-1	1630	6792	Sat	480 169 42 40231 53081 36804 ... 34921 79307 35916 169 42 00000	USB	(PY)
E06	17-1	1600	9951	Sat	480 679 48 29258 72794 53730 ... 48987 25280 68404 679 48 00000	USB	(PY)
E06	17-1	1630	6792	Sat	480 679 48 29258 72794 53730 ... 48987 25280 68404 679 48 00000	USB	(AB/PY)
E06	18-1	0730	11514	Sun	480 679 48 29258 72794 53730 ... 48987 25280 68504 679 48 00000	USB	(AB/PY)
E06	18-1	0800	9481	Sun	480 679 48 29258 72794 53730 ... 48987 25280 68504 679 48 00000	USB	(AB/PY)
E06	24-1	1600	9951	Sat	480 267 45 26963 91630 26384 ... 94345 91658 96508 267 45 00000 Several restarts	USB	(AB/PY)
E06	24-1	1630	6792	Sat	480 267 45 26963 91630 26384 ... 94345 91658 96508 267 45 00000 Several restarts	USB	(AB/PY)
E06	25-1	0730	11514	Sun	480 267 45 26963 91630 26384 ... 94345 91658 96508 267 45 00000	USB	(AB/PY)
E06	25-1	0800	9481	Sun	480 267 45 26963 91630 26384 ... 94345 91658 96508 267 45 00000 Restart	USB	(AB-RUS/PY)
E06	31-1	1600	9951	Sat	480 726 31 63193 49834 18378 ... 69160 95140 23962 726 31 00000	USB	(AB/PY/Lac)
E06	31-1	1630	6792	Sat	480 726 31 63193 49834 18378 ... 69160 95140 23962 726 31 00000	USB	(AB/PY/Lac)
E07	1-1	1000	18281	Thu	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB/Lac)
E07	1-1	1021	17437	Thu	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB/Lac)
E07	1-1	1045	16152	Thu	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB/Lac)
E07	2-1	1500	13375	Fri	313 313 313 000	USB	(AB/Lac)
E07	2-1	1520	12175	Fri	313 313 313 000	USB	(AB/Lac)
E07	3-1	1000	18281	Sat	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB)
E07	3-1	1021	17437	Sat	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB)
E07	3-1	1045	16152	Sat	241 241 241 1 898 208 898 208 08012 71018 47613 ... 45533 68425 56123 000 000	USB	(AB)
E07	6-1	1500	13375	Tue	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB/Lac)
E07	6-1	1520	12175	Tue	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB/Lac)
E07	6-1	1540	10375	Tue	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB/Lac)
E07	8-1	1000	18281	Thu	241 241 241 000	USB	(AB)
E07	8-1	1020	17437	Thu	241 241 241 000	USB	(AB)
E07	9-1	1500	13375	Fri	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB)
E07	9-1	1520	12175	Fri	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB)
E07	9-1	1540	10375	Fri	313 313 313 1 887 143 887 143 34478 31917 28395 ... 40139 27750 12846 000 000	USB	(AB)
E07	10-1	1000	18281	Sat	241 241 241 000	USB	(AB)
E07	10-1	1021	17437	Sat	241 241 241 000	USB	(AB)
E07	13-1	1500	13375	Tue	313 313 313 000	USB	(AB/Lac)
E07	13-1	1520	12175	Tue	313 313 313 000	USB	(AB/Lac)
E07	15-1	1000	18281	Thu	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB/Lac)
E07	15-1	1020	17437	Thu	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB)
E07	15-1	1040	16152	Thu	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB)
E07	16-1	1500	13375	Fri	313 313 313 000	USB	(AB)
E07	16-1	1520	12175	Fri	313 313 313 000	USB	(AB)
E07	17-1	1000	18281	Sat	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB)
E07	17-1	1020	17437	Sat	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB)
E07	17-1	1040	16152	Sat	241 241 241 1 9507 171 9507 171 34170 07201 80289 ... 98623 14476 73833 000 000	USB	(AB)
E07	20-1	1500	13375	Tue	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB/Lac)
E07	20-1	1520	12175	Tue	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB/Lac)

E07	20-1	1540	10375	Tue	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB/Lac)
E07	22-1	1000	18281	Thu	241 241 241 000	USB	(AB/Lac)
E07	22-1	1020	17437	Thu	241 241 241 000	USB	(AB/Lac)
E07	23-1	1500	13375	Fri	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB)
E07	23-1	1520	12175	Fri	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB)
E07	23-1	1540	10375	Fri	313 131 313 1 993 188 993 188 47134 54239 57144 ... 88277 53289 11570 000 000	USB	(AB)
E07	24-1	1000	18281	Sat	241 241 241 000	USB	(AB)
E07	24-1	1020	17437	Sat	241 241 241 000	USB	(AB)
E07	27-1	1500	13375	Tue	313 131 313 000	USB	(AB)
E07	27-1	1520	12175	Tue	313 131 313 000	USB	(AB)
E07	29-1	1000	18281	Thu	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB/Lac)
E07	29-1	1020	17437	Thu	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB/Lac)
E07	29-1	1040	16152	Thu	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB/Lac)
E07	30-1	1500	13375	Fri	313 131 313 000	USB	(AB)
E07	30-1	1520	12175	Fri	313 131 313 000	USB	(AB)
E07	31-1	1000	18281	Sat	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB)
E07	31-1	1020	17437	Sat	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB)
E07	31-1	1040	16152	Sat	241 241 241 1 997 187 997 187 14282 01075 19106 ... 92895 38109 07204 000 000	USB	(AB)
E11	1-1	0645	12385	Thu	517/00 Out	USB	(Lac)
E11	1-1	0720	8180	Thu	435/00 Out	USB	(AB/Lac)
E11	1-1	0745	23031	Thu	225/00 Out	USB	(AB/Lac)
E11	1-1	0845	17378	Thu	159/00 Out	USB	(AB/Lac)
E11	1-1	0930	7469	Thu	279/00 Out	USB	(AB/Lac)
E11	1-1	1300	4909	Thu	312/00 Out	USB	(AB/Lac)
E11	1-1	1530	5409	Thu	267/00 Out	USB	(AB/Lac)
E11	1-1	1900	6849	Thu	640/00 Out	USB	(AB/Lac)
E11	1-1	2000	5082	Thu	524/00 Out	USB	(AB/Lac)
E11	2-1	0600	7850	Fri	355/00 Out	USB	(AB)
E11	2-1	0700	6804	Fri	573/00 Out	USB	(AB)
E11	2-1	0715	14975	Fri	633/00 Out	USB	(Lac)
E11	2-1	0715	13911	Fri	633/00 Out	USB	(PY)
E11	2-1	0720	8180	Fri	431/00 Out	USB	(AB/Lac)
E11	2-1	0745	17378	Fri	343/00 Out	USB	(AB/PY)
E11	2-1	0830	23353	Fri	180/00 Out	USB	(AB)
E11	2-1	1000	9079	Fri	308/00 Out	USB	(AB)
E11	2-1	1715	5082	Fri	972/00 Out	USB	(AB)
E11	2-1	1815	6849	Fri	922/00 Out	USB	(AB)
E11	3-1	1430	13363	Sat	918/00 Out	USB	(AB)
E11	3-1	1610	4505	Sat	392/00 Out	USB	(AB)
E11	3-1	1645	4909	Sat	367/00 Out	USB	(AB)
E11	4-1	0600	7850	Sun	354/00 Out	USB	(AB)
E11	4-1	1605	5432	Sun	230/00 Out	USB	(AB)

E11	4-1	1645	4909	Sun	368/00 Out	USB	(AB)
E11	4-1	1815	6849	Sun	925/00 Out	USB	(AB)
E11	4-1	2000	5082	Sun	528/00 Out	USB	(AB)
E11	5-1	0315	8102	Mon	253/00 Out	USB	(TM)
E11	5-1	0645	13911	Mon	Null	USB	(PY)
E11	5-1	0715	20167	Mon	754/00 Out	USB	(AB-RUS/Lac)
E11	5-1	0831	23353	Mon	180/00 Out (late start)	USB	(AB/Lac)
E11	5-1	0845	12067	Mon	711/00 Out	USB	(AB/Lac)
E11	5-1	0900	15915	Mon	537/00 Out	USB	(AB/Lac)
E11	5-1	1045	14410	Mon	691/00 Out	USB	(AB/Lac)
E11	5-1	1300	4909	Mon	319/00 Out	USB	(AB)
E11	5-1	1745	12924	Mon	246/00 Out	USB	(AB)
E11	6-1	0645	12385	Tue	510/00 Out	USB	(PY)
E11	6-1	0700	6804	Tue	573/00 Out	USB	(AB)
E11	6-1	0715	13911	Tue	630/00 Out	USB	(PY)
E11	6-1	0745	23031	Tue	228/00 Out	USB	(AB/Subilo)
E11	6-1	0820	14611	Tue	135/00 Out	USB	(AB/Lac)
E11	6-1	1000	9079	Tue	304/00 Out	USB	(AB)
E11	6-1	1205	11559	Tue	466/00 Out	USB	(AB)
E11	6-1	1430	13363	Tue	917/00 Out	USB	(AB/Lac)
E11	7-1	0315	8102	Wed	251/00 Out	USB	(AB)
E11	7-1	0600	20286	Wed	941/00 Out	USB	(AB)
E11	7-1	0645	13911	Wed	Null	USB	(PY)
E11	7-1	0715	20167	Wed	752/00 Out	USB	(AB)
E11	7-1	0820	14611	Wed	134/00 Out	USB	(AB)
E11	7-1	0845	12067	Wed	714/00 Out	USB	(AB)
E11	7-1	0900	15915	Wed	535/00 Out	USB	(AB)
E11	7-1	0930	7469	Wed	270/00 Out	USB	(AB)
E11	7-1	1045	14410	Wed	698/00 Out	USB	(AB)
E11	7-1	1205	11559	Wed	463/00 Out	USB	(AB)
E11	7-1	1610	4505	Wed	393/00 Out	USB	(AB)
E11	7-1	1715	5082	Wed	978/00 Out	USB	(AB)
E11	8-1	0645	12385	Thu	515/00 Out	USB	(PY)
E11	8-1	0720	8180	Thu	434/00 Out	USB	(AB)
E11	8-1	0745	23031	Thu	228/00 Out	USB	(AB/PY)
E11	8-1	0930	7469	Thu	278/00 Out	USB	(AB)
E11	8-1	1300	4909	Thu	316/00 Out	USB	(AB)
E11	8-1	2000	5082	Thu	524/00 Out	USB	(AB)
E11	9-1	0600	7850	Fri	350/00 Out	USB	(AB)
E11	9-1	0700	6804	Fri	579/00 Out	USB	(AB)
E11	9-1	0715	13911	Fri	635/00 Out	USB	(PY)
E11	9-1	0830	23353	Fri	188/00 Out	USB	(AB)

E11	9-1	1000	9079	Fri	305/00 Out	USB	(AB)
E11	9-1	1715	5082	Fri	974/00 Out	USB	(AB)
E11	9-1	1815	6849	Fri	922/00 Out	USB	(AB)
E11	9-1	1910	10487	Fri	610/00 Out	USB	(AB-POL)
E11	10-1	0700	5371	Sat	496/00 Out	USB	(AB)
E11	10-1	1430	13363	Sat	917/00 Out	USB	(AB)
E11	10-1	1610	4505	Sat	395/00 Out	USB	(AB)
E11	10-1	1645	4909	Sat	367/00 Out	USB	(AB)
E11	11-1	0600	7850	Sun	353/00 Out	USB	(AB)
E11	11-1	0700	5371	Sun	495/00 Out	USB	(AB)
E11	11-1	1645	4909	Sun	366/00 Out	USB	(AB)
E11	11-1	1815	6849	Sun	924/00 Out	USB	(AB)
E11	11-1	1910	10487	Sun	282/00 Out	USB	(AB-S)
E11	11-1	2000	5082	Sun	525/00 Out	USB	(AB)
E11	12-1	0600	20286	Mon	940/00 Out	USB	(AB-POL)
E11	12-1	0645	13911	Mon	too weak to copy	USB	(PY)
E11	12-1	0715	20167	Mon	750/00 Out	USB	(AB-POL)
E11	12-1	0745	10213	Mon	260/00 Out	USB	(AB)
E11	12-1	0830	23353	Mon	181/00 Out	USB	(AB)
E11	12-1	0845	12067	Mon	719/00 Out	USB	(AB)
E11	12-1	0900	15915	Mon	530/00 Out	USB	(AB)
E11	12-1	1045	14410	Mon	696/00 Out	USB	(AB)
E11	12-1	1745	12924	Mon	247/00 Out	USB	(AB)
E11	12-1	1900	6849	Mon	644/00 Out	USB	(AB)
E11	13-1	0645	12385	Tue	511/00 Out	USB	(PY)
E11	13-1	0715	13911	Tue	633/00 Out	USB	(AB/Subilo)
E11	13-1	0745	23031	Tue	228/00 Out	USB	(AB/Subilo)
E11	13-1	0820	14611	Tue	135/00 Out	USB	(AB/Lac)
E11	13-1	0845	17378	Tue	156/00 Out	USB	(AB/Lac)
E11	13-1	1430	13363	Tue	917/00 Out	USB	(AB/Lac)
E11	13-1	1605	5432	Tue	231/00 Out	USB	(AB/Lac)
E11	14-1	0715	20167	Wed	759/00 Out	USB	(AB)
E11	14-1	0745	17378	Wed	342/00 Out	USB	(AB/Lac)
E11	14-1	0820	14611	Wed	130/00 Out	USB	(AB/Lac)
E11	14-1	0845	12067	Wed	719/00 Out	USB	(AB/Lac)
E11	14-1	0900	15915	Wed	537/00 Out	USB	(AB/Lac)
E11	14-1	0930	7469	Wed	270/00 Out	USB	(AB/Lac)
E11	14-1	1045	14410	Wed	697/00 Out	USB	(AB/Lac)
E11	14-1	1715	5082	Wed	978/00 Out	USB	(AB)
E11	15-1	0645	12385	Thu	510/00 Out	USB	(PY)
E11	15-1	0745	23031	Thu	227/00 Out	USB	(AB/Lac)
E11	15-1	0845	17378	Thu	150/00 Out	USB	(AB/Lac)

E11	15-1	0930	7469	Thu	273/00 Out	USB	(AB/Lac)
E11	15-1	1530	5409	Thu	266/00 Out	USB	(AB/Lac)
E11	15-1	1900	6849	Thu	643/00 Out	USB	(AB)
E11	15-1	2000	5082	Thu	522/00 Out	USB	(AB)
E11	16-1	0600	7850	Fri	352/00 Out	USB	(AB)
E11	16-1	0715	13911	Fri	637/00 Out	USB	(AB)
E11	16-1	0715	13911	Fri	637/00 Out	USB	(Subilo)
E11	16-1	0745	17378	Fri	Active, barely audible	USB	(AB)
E11	16-1	0830	23353	Fri	182/00 Out	USB	(AB)
E11	16-1	1020	17378	Fri	Null	USB	(PY)
E11	16-1	1715	5082	Fri	972/00 Out	USB	(AB)
E11	16-1	1815	6849	Fri	920/00 Out	USB	(AB)
E11	16-1	1910	10487	Fri	611/00 Out	USB	(AB-POL)
E11	17-1	0700	5371	Sat	490/00 Out	USB	(AB)
E11	17-1	1430	13363	Sat	910/00 Out	USB	(AB)
E11	17-1	1645	4909	Sat	369/00 Out	USB	(AB)
E11	18-1	0700	5371	Sun	495/00 Out	USB	(AB)
E11	18-1	1605	5432	Sun	232/00 Out	USB	(AB)
E11	18-1	1645	4909	Sun	363/00 Out	USB	(AB)
E11	18-1	1815	6849	Sun	925/00 Out	USB	(AB)
E11	18-1	1910	10487	Sun	617/00 Out	USB	(AB-S)
E11	18-1	2000	5082	Sun	525/00 Out	USB	(AB)
E11	19-1	0600	20286	Mon	942/00 Out	USB	(AB-POL)
E11	19-1	0645	13911	Mon	414/00 Out	USB	(Subilo)
E11	19-1	0715	20167	Mon	759/00 Out	USB	(AB-POL)
E11	19-1	0745	10213	Mon	269/00 Out	USB	(AB/Lac)
E11	19-1	0830	23353	Mon	183/00 Out	USB	(AB/Lac)
E11	19-1	0900	15915	Mon	535/00 Out	USB	(AB)
E11	19-1	1045	14410	Mon	692/00 Out	USB	(AB)
E11	19-1	1300	4909	Mon	316/00 Out	USB	(AB/Lac)
E11	19-1	1745	12924	Mon	245/00 Out	USB	(Lac)
E11	19-1	1900	6849	Mon	641/00 Out	USB	(AB/Lac)
E11	20-1	0700	6804	Tue	577/00 Out	USB	(AB)
E11	20-1	0715	13911	Tue	634/00 Out	USB	(Subilo)
E11	20-1	0845	17378	Tue	159/00 Out	USB	(AB/Lac)
E11	20-1	1000	9079	Tue	308/00 Out	USB	(AB/Lac)
E11	20-1	1205	11559	Tue	469/00 Out	USB	(AB/Lac)
E11	20-1	1430	13363	Tue	911/00 Out	USB	(AB/Lac)
E11	20-1	1605	5432	Tue	235/00 Out	USB	(AB)
E11	21-1	0315	8102	Wed	253/00 Out	USB	(TM)
E11	21-1	0645	13911	Wed	411/00 Out	USB	(Subilo)
E11	21-1	0715	20167	Wed	753/00 Out	USB	(AB-POL)

E11	21-1	0745	17378	Wed	342/00 Out	USB	(AB)
E11	21-1	0745	17378	Wed	342/00 Out	USB	(Subilo)
E11	21-1	0820	14611	Wed	131/00 Out	USB	(AB)
E11	21-1	0900	15915	Wed	536/00 Out	USB	(AB/Lac)
E11	21-1	0930	7469	Wed	275/00 Out	USB	(AB)
E11	21-1	1045	14410	Wed	693/00 Out	USB	(AB)
E11	21-1	1205	11559	Wed	464/00 Out	USB	(AB)
E11	21-1	1610	4505	Wed	391/00 Out	USB	(AB/Lac)
E11	21-1	1715	5082	Wed	977/00 Out	USB	(AB/Lac)
E11	22-1	0720	8180	Thu	431/00 Out	USB	(AB/Lac)
E11	22-1	0745	23031	Thu	221/39	USB	(Subilo/Lac)
E11	22-1	0845	17378	Thu	151/00 Out	USB	(AB/Lac)
E11	22-1	0930	7469	Thu	270/00 Out	USB	(AB/Lac)
E11	22-1	1300	4909	Thu	313/00 Out	USB	(AB-POL)
E11	22-1	1530	5409	Thu	262/00 Out	USB	(AB)
E11	22-1	1900	6849	Thu	644/00 Out	USB	(AB)
E11	23-1	0600	7850	Fri	359/00 Out	USB	(AB)
E11	23-1	0700	6804	Fri	579/00 Out	USB	(AB)
E11	23-1	0715	13911	Fri	634/00 Out	USB	(AB/Subilo)
E11	23-1	0720	8180	Fri	431/00 Out	USB	(AB)
E11	23-1	0745	17378	Fri	No transmission	USB	(AB)
E11	23-1	0830	23353	Fri	184/00 Out	USB	(AB/Lac)
E11	23-1	1000	9079	Fri	308/00 Out	USB	(AB)
E11	23-1	1020	17378	Fri	Null	USB	(PY)
E11	23-1	1715	5082	Fri	974/00 Out	USB	(AB)
E11	23-1	1910	10487	Fri	611/00 Out	USB	(AB-POL)
E11	24-1	0700	5371	Sat	492/00 Out	USB	(AB)
E11	24-1	1430	13363	Sat	911/00 Out	USB	(AB)
E11	24-1	1610	4505	Sat	399/00 Out	USB	(AB)
E11	24-1	1645	4909	Sat	365/00 Out	USB	(AB)
E11	25-1	0600	7850	Sun	355/00 Out	USB	(AB)
E11	25-1	0700	5371	Sun	496/00 Out	USB	(AB)
E11	25-1	1605	5432	Sun	233/00 Out	USB	(AB)
E11	25-1	1645	4909	Sun	369/00 Out	USB	(AB)
E11	25-1	1910	10487	Sun	614/00 Out	USB	(AB-CYP)
E11	26-1	0315	8102	Mon	259/00 Out	USB	(TM)
E11	26-1	0600	20286	Mon	944/00 Out	USB	(AB-POL)
E11	26-1	0645	13911	Mon	416/00 Out	USB	(AB/Subilo)
E11	26-1	0745	10213	Mon	266/00 Out	USB	(AB/Lac)
E11	26-1	0830	23353	Mon	183/00 Out	USB	(AB/Lac)
E11	26-1	0845	12067	Mon	718/00 Out	USB	(AB/Lac)
E11	26-1	1045	14410	Mon	690/00 Out	USB	(AB/Lac)

E11	26-1	1300	4909	Mon	311/00 Out	USB	(AB/Lac)
E11	26-1	1745	12924	Mon	246/00 Out	USB	(AB/Lac)
E11	26-1	1900	6849	Mon	644/00 Out	USB	(AB/Lac)
E11	27-1	0645	12385	Tue	515/00 Out	USB	(PY)
E11	27-1	0700	6804	Tue	571/00 Out	USB	(AB/Lac)
E11	27-1	0745	23031	Tue	227/00 Out	USB	(AB-POL/Subilo)
E11	27-1	0845	17378	Tue	156/00 Out	USB	(AB)
E11	27-1	0930	14611	Tue	134/00 Out	USB	(AB)
E11	27-1	1000	9079	Tue	305/00 Out	USB	(AB)
E11	27-1	1205	11559	Tue	466/00 Out	USB	(AB)
E11	27-1	1605	5432	Tue	230/00 Out	USB	(AB)
E11	28-1	0315	8102	Wed	253/00 Out	USB	(TM)
E11	28-1	0645	13911	Wed	416/00 Out	USB	(AB)
E11	28-1	0645	13911	Wed	416/00 Out	USB	(Subilo)
E11	28-1	0745	17378	Wed	343/00 Out	USB	(AB/PY)
E11	28-1	0820	14611	Wed	130/00 Out	USB	(AB)
E11	28-1	0845	12067	Wed	714.00 Out	USB	(AB/Lac)
E11	28-1	1045	14410	Wed	694/00 Out	USB	(AB)
E11	28-1	1205	11559	Wed	465/00 Out	USB	(AB/Lac)
E11	28-1	1610	4505	Wed	393/00 Out	USB	(AB/Lac)
E11	29-1	0505	12153	Thu	Active, too weak to copy	USB	(TM)
E11	29-1	0645	12385	Thu	514/00 Out	USB	(PY)
E11	29-1	0720	8180	Thu	434/00 Out	USB	(AB/Lac)
E11	29-1	0745	23031	Thu	228/00 Out	USB	(AB/Su-bilo/Lac)
E11	29-1	0845	17378	Thu	152/00 Out	USB	(AB/Lac)
E11	29-1	1300	4909	Thu	319/00 Out	USB	(AB-POL)
E11	29-1	1530	5409	Thu	269/00 Out	USB	(AB/Lac)
E11	29-1	1900	6849	Thu	643/00 Out	USB	(AB/Lac)
E11	29-1	2000	5082	Thu	528/00 Out	USB	(AB/Lac)
E11	30-1	0700	6804	Fri	576/00 Out	USB	(AB)
E11	30-1	0715	13911	Fri	637/30	USB	(Subilo)
E11	30-1	0720	8180	Fri	435/00 Out	USB	(AB)
E11	30-1	1000	9079	Fri	308/00 Out	USB	(AB)
E11	30-1	1020	17378	Fri	348/00 Out	USB	(PY)
E11	30-1	1815	6849	Fri	920/00 Out	USB	(AB)
E11	31-1	0700	5371	Sat	497/00 Out	USB	(AB)
E11	31-1	1610	4505	Sat	395/00 Out	USB	(AB)
E11a	3-1	0700	5371	Sat	496/39 Attention 52303 42598 12531 ... 88555 97204 48442 Attention (msg rptd) Out	USB	(AB)
E11a	4-1	0700	5371	Sun	496/39 Attention 52303 42598 12531 ... 88555 97204 48442 Attention (msg rptd) Out	USB	(AB)
E11a	5-1	0600	20286	Mon	159/24 Attention 44 11 77 66 33 11 Attention 4 1 7 631 Out	USB	(AB)
E11a	5-1	0600	20286	Mon	159/24 Attention 4411 7766 3311 Attention 4176 31 Out	USB	(Lac)
E11a	5-1	0745	10213	Mon	267/31 Attention 27949 44021 64663 ... 72491 36466 63424 Attention (msg rptd) Out	USB	(AB/Lac)

E11a	5-1	1900	6849	Mon	647/34 Attention 63604 72657 65011 ... 03696 26613 63314 Attention (msg rptd) Out	USB	(AB)
E11a	6-1	0505	12153	Tue	337/35 ... (barely audible)	USB	(AB)
E11a	6-1	0845	17378	Tue	159/24 Attention 65270 31983 84595 ... 29208 44760 65118 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	6-1	1605	5432	Tue	232/34 Attention 25880 11534 44049 ... 36758 17717 65562 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	7-1	0745	17378	Wed	340/37 Attention 99189 28132 75420 ... 89513 92668 54494 Attention (msg rptd) Out	USB	(AB/Lac/PY)
E11a	8-1	0845	17378	Thu	159/24 Attention 65270 31983 84595 ... 29208 44760 65118 Attention (msg rptd) Out	USB	(AB)
E11a	8-1	1530	5409	Thu	267/31 Attention 27949 44021 64663 ... 72491 36466 63424 Attention (msg rptd) Out	USB	(AB)
E11a	8-1	1900	6849	Thu	647/34 Attention 63604 72657 65011 ... 03696 26613 63314 Attention (msg rptd) Out	USB	(AB)
E11a	9-1	0745	17378	Fri	340/37 Attention 99189 28132 75420 ... 89513 92668 54494 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-1	1605	5432	Sun	232/34 Attention 25880 11534 44049 ... 36758 17717 65562 Attention (msg rptd) Out	USB	(AB)
E11a	12-1	0315	8102	Mon	259/37 ... (too weak to copy)	USB	(TM)
E11a	12-1	1300	4909	Mon	311/36 Attention 96138 35903 49749 ... 15426 71400 75931 Attention (msg rptd) Out	USB	(AB)
E11a	13-1	0700	6804	Tue	574/36 Attention 75288 64310 82878 ... 06109 93910 55486 Attention (msg rptd) Out	USB	(AB)
E11a	13-1	1000	9079	Tue	306/30 Attention 27318 12547 52742 ... 68934 26345 89195 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	13-1	1205	11559	Tue	463/31 Attention 40731 05812 23998 ... 13334 20215 04181 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	14-1	0315	8102	Wed	259/37 ... (too weak to copy)	USB	(AB)
E11a	14-1	0645	13911	Wed	Message	USB	(PY)
E11a	14-1	1205	11559	Wed	463/31 Attention 40731 05812 23998 ... 13334 20215 04181 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	14-1	1610	4505	Wed	399/35 Attention 11748 18660 80007 ... 52024 25472 78463 Attention (msg rptd) Out	USB	(AB)
E11a	15-1	0720	8180	Thu	438/32 Attention 25510 51404 43524 ... 23037 03902 31046 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	15-1	1300	4909	Thu	311/36 Attention 96138 35903 49749 ... 15426 71400 75931 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	16-1	0700	6804	Fri	574/36 Attention 75288 64310 82878 ... 06109 93910 55486 Attention (msg rptd) Out	USB	(AB)
E11a	16-1	0720	8180	Fri	438/32 Attention 25510 51404 43524 ... 23037 03902 31046 Attention (msg rptd) Out	USB	(AB)
E11a	16-1	1000	9079	Fri	306/30 Attention 27318 12547 52742 ... 68934 26345 89195 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-1	1610	4505	Sat	399/35 Attention 11748 18660 80007 ... 52024 25472 78463 Attention (msg rptd) Out	USB	(AB)
E11a	19-1	0845	12067	Mon	719/34 Attention 25948 40325 43866 ... 04024 49944 74642 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	20-1	0645	12385	Tue	518/36 Attention 10734 74872 73263 ... 03198 14615 42693 Attention (msg rptd) Out	USB	(PY)
E11a	20-1	0745	23031	Tue	221/39 Attention 56735 90718 71716 ... 54116 47909 30574 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	21-1	0845	12067	Wed	719/34 Attention 25948 40325 43866 ... 04024 49944 74642 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	22-1	0645	12385	Thu	518/36 Attention 10734 74872 73263 ... 03198 14615 42693 Attention (msg rptd) Out	USB	(PY)
E11a	22-1	0745	23031	Thu	221/39 Attention 56735 90718 71716 ... 54116 47909 30574 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	22-1	2000	5082	Thu	525/39 Attention 90199 10764 07068 ... 52680 72513 45073 Attention (msg rptd) Out	USB	(AB)
E11a	23-1	1815	6849	Fri	924/38 Attention 09723 46479 64592 ... 4332 56909 91174 Attention (msg rptd) Out	USB	(AB)
E11a	25-1	1815	6849	Sun	924/38 Attention 09723 46479 64592 4332 56909 91174 Attention (msg rptd) Out	USB	(AB)
E11a	25-1	2000	5082	Sun	525/39 Attention 90199 10764 07068 ... 52680 72513 45073 Attention (msg rptd) Out	USB	(AB)
E11a	26-1	0715	20167	Mon	751/39 Attention 92385 83028 34781 ... 27539 32475 71123 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	26-1	0900	15915	Mon	536/33 Attention 16958 11734 00041 ... 65039 20121 73944 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	27-1	0715	13911	Tue	637/30 Attention 78865 22193 99651 ... 65790 69410 60991 Attention (msg rptd) Out	USB	(AB/Lac/PY)
E11a	27-1	1430	13363	Tue	911/39 Attention 59999 82735 22213 ... 15208 27239 16470 Attention (msg rptd) Out	USB	(AB)
E11a	28-1	0715	20167	Wed	751/39 Attention 92385 83028 34781 ... 27539 32475 71123 Attention (msg rptd) Out	USB	(AB-POL)
E11a	28-1	0900	15915	Wed	536/33 Attention 16958 11734 00041 ... 65039 20121 73944 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	28-1	0930	7469	Wed	273/33 Attention 76945 49497 94754 ... 96673 42754 11437 Attention (msg rptd) Out	USB	(AB/Lac)

E11a	28-1	1715	5082	Wed	970/35 Attention 27576 97556 47055 ... 45963 92694 93657 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	29-1	0930	7469	Thu	273/33 Attention 76945 49497 94754 ... 96673 42754 11437 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	30-1	0600	7850	Fri	352/38 Attention 05116 85107 52203 ... 60083 55278 09171 Attention (msg rptd) Out	USB	(AB)
E11a	30-1	0715	13911	Fri	637/30 Attention 78865 22193 99651 ... 65790 69410 60991 Attention (msg rptd) Out	USB	(AB)
E11a	30-1	1715	5082	Fri	970/35 Attention 27576 97556 47055 ... 45963 92694 93657 Attention (msg rptd) Out	USB	(AB)
E11a	31-1	1430	13363	Sat	911/39 Attention 59999 82735 22213 ... 15208 27239 16470 Attention (msg rptd) Out	USB	(AB)
E11a	31-1	1645	4909	Sat	364/40 Attention 36001 59387 32745 ... 94051 31365 55983 Attention (msg rptd) Out	USB	(AB)
F01	1-1	1015	11079	Thu	Messages 22 and 23	FSK 200/500	(AB)
F01	1-1	1025	9162	Thu	Messages 22 and 23	FSK 200/500	(AB)
F01	1-1	1035	7509	Thu	Messages 22 and 23	FSK 200/500	(AB)
F01	2-1	1015	11079	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	2-1	1025	9162	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	2-1	1035	7509	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	5-1	1015	11079	Mon	Message 24	FSK 200/500	(AB)
F01	5-1	1025	9162	Mon	Message 24	FSK 200/500	(AB)
F01	5-1	1035	7509	Mon	Message 24	FSK 200/500	(AB)
F01	6-1	1007	11079	Tue	646464646464646464 Various tests. Ranging from a very weak signal to strong.	FSK 200/500	(AB)
F01	6-1	1015	11079	Tue	Messages 25 and 26	FSK 200/500	(AB)
F01	6-1	1025	9162	Tue	Messages 25 and 26	FSK 200/500	(AB)
F01	6-1	1035	7509	Tue	Messages 25 and 26	FSK 200/500	(AB)
F01	7-1	1015	11079	Wed	Message 27	FSK 200/500	(AB)
F01	7-1	1025	9162	Wed	Message 27	FSK 200/500	(AB)
F01	7-1	1035	7509	Wed	Message 27	FSK 200/500	(AB)
F01	8-1	1015	11079	Thu	Messages 28 and 29	FSK 200/500	(AB)
F01	8-1	1025	9162	Thu	Messages 28 and 29	FSK 200/500	(AB)
F01	8-1	1035	7509	Thu	Messages 28 and 29	FSK 200/500	(AB)
F01	9-1	1015	11079	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	9-1	1025	9162	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	9-1	1035	7509	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	12-1	1015	11079	Mon	Message 30	FSK 200/500	(AB)
F01	12-1	1025	9162	Mon	Message 30	FSK 200/500	(AB)
F01	12-1	1035	7509	Mon	Message 30	FSK 200/500	(AB)
F01	13-1	1015	11079	Tue	Messages 31 and 32	FSK 200/500	(AB)
F01	13-1	1025	9162	Tue	Messages 31 and 32	FSK 200/500	(AB)
F01	13-1	1035	7509	Tue	Messages 31 and 32	FSK 200/500	(AB)
F01	14-1	1015	11079	Wed	Message 33	FSK 200/500	(AB)
F01	14-1	1025	9162	Wed	Message 33	FSK 200/500	(AB)
F01	14-1	1035	7509	Wed	Message 33	FSK 200/500	(AB)
F01	15-1	1015	11079	Thu	Messages 34 and 35	FSK 200/500	(AB)
F01	15-1	1025	9162	Thu	Messages 34 and 35	FSK 200/500	(AB)
F01	15-1	1035	7509	Thu	Messages 34 and 35	FSK 200/500	(AB)
F01	16-1	0810	6957	Fri	Message 76. Interruptions in the signal	FSK 200/500	(AB)

F01	16-1	1015	11079	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	16-1	1025	9162	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	16-1	1035	7509	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	19-1	1015	11079	Mon	Message 36	FSK 200/500	(AB)
F01	19-1	1025	9162	Mon	Message 36	FSK 200/500	(AB)
F01	19-1	1035	7509	Mon	Message 36	FSK 200/500	(AB)
F01	20-1	1015	11079	Tue	Messages 37 and 38	FSK 200/500	(AB)
F01	20-1	1025	9162	Tue	Messages 37 and 38	FSK 200/500	(AB)
F01	20-1	1035	7509	Tue	Messages 37 and 38	FSK 200/500	(AB)
F01	21-1	1015	11079	Wed	Message 39	FSK 200/500	(AB)
F01	21-1	1025	9162	Wed	Message 39	FSK 200/500	(AB)
F01	21-1	1035	7509	Wed	Message 39	FSK 200/500	(AB)
F01	22-1	1015	11079	Thu	Messages 40 and 41	FSK 200/500	(AB)
F01	22-1	1025	9162	Thu	Messages 40 and 41	FSK 200/500	(AB)
F01	22-1	1035	7509	Thu	Messages 40 and 41	FSK 200/500	(AB)
F01	23-1	1015	11079	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	23-1	1025	9162	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	23-1	1035	7509	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	26-1	1015	11079	Mon	Message 42	FSK 200/500	(AB)
F01	26-1	1025	9162	Mon	Message 42	FSK 200/500	(AB)
F01	26-1	1035	7509	Mon	Message 42	FSK 200/500	(AB)
F01	27-1	1015	11079	Tue	Messages 43 and 44	FSK 200/500	(AB)
F01	27-1	1025	9162	Tue	Messages 43 and 44	FSK 200/500	(AB)
F01	27-1	1035	7509	Tue	Messages 43 and 44	FSK 200/500	(AB)
F01	28-1	1015	11079	Wed	Message 45	FSK 200/500	(AB)
F01	28-1	1025	9162	Wed	Message 45	FSK 200/500	(AB)
F01	28-1	1035	7509	Wed	Message 45	FSK 200/500	(AB)
F01	29-1	1015	11079	Thu	Messages 46 and 47	FSK 200/500	(AB)
F01	29-1	1025	9162	Thu	Messages 46 and 47	FSK 200/500	(AB)
F01	29-1	1035	7509	Thu	Messages 46 and 47	FSK 200/500	(AB)
F01	30-1	1015	11079	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	30-1	1025	9162	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	30-1	1035	7509	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F02	13-1	0745	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-1	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	20-1	0747	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	20-1	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	20-1	0810	13882	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	20-1	0814	9300	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	20-1	0820	12143	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	27-1	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	27-1	0810	13882	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)

F02	27-1	0820	12143	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F03j	1-1	0620	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	1-1	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-1	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-1	0855	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	2-1	1500	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-1	1505	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-1	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-1	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-1	0615	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	6-1	0620	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	6-1	0810	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	6-1	0815	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	6-1	1500	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-1	1505	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-1	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-1	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-1	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-1	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-1	0615	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	8-1	0620	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	8-1	0700	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-1	0705	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-1	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-1	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-1	0700	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-1	0705	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-1	0850	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	9-1	0855	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	9-1	1500	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-1	1505	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-1	0615	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-1	0620	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-1	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-1	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-1	0620	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	13-1	0810	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	13-1	1500	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-1	1505	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-1	0615	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-1	0620	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-1	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	14-1	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-1	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-1	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-1	0615	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	15-1	0700	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-1	0705	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-1	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-1	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-1	0700	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-1	0705	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-1	0850	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	16-1	1500	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-1	1505	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-1	0615	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-1	0620	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-1	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-1	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-1	0615	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	20-1	0620	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	20-1	0635	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(FD)
F03j	20-1	0640	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(FD)
F03j	20-1	0810	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	20-1	0815	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	20-1	1500	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-1	1505	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	0615	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	0620	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-1	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-1	0615	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	22-1	0640	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	22-1	0700	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-1	0705	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-1	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-1	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-1	0700	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-1	0705	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-1	0850	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	23-1	0855	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	23-1	1500	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	23-1	1505	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-1	0615	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-1	0620	18782	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-1	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-1	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-1	0615	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	27-1	0620	7837	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	27-1	0635	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	27-1	0640	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	27-1	0810	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	27-1	0815	17441	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	27-1	1500	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-1	1505	8091	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	0615	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	0620	18782	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-1	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-1	0615	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	29-1	0620	7837	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	29-1	0635	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	29-1	0640	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	29-1	0700	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-1	0705	7371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-1	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-1	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-1	0700	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-1	0705	7371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-1	0855	17441	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(PY)
F03j	30-1	1500	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-1	1505	8091	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03l	1-1	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	1-1	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	1-1	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	1-1	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-1	0810	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-1	0815	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-1	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	2-1	0930	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(PY)
F03l	2-1	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	2-1	0935	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(PY)

F03I	2-1	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	2-1	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0810	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0815	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(PY)
F03I	5-1	0935	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-1	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-1	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-1	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-1	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-1	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-1	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-1	1030	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-1	1035	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	8-1	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	8-1	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	8-1	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	8-1	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-1	0810	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-1	0815	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-1	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-1	0930	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	9-1	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-1	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-1	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0810	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0815	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	12-1	0935	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	1030	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-1	1035	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-1	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)

F03I	13-1	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-1	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-1	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-1	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-1	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-1	1030	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-1	1035	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	15-1	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	15-1	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	15-1	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	15-1	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-1	0810	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-1	0815	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-1	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-1	0930	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	16-1	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-1	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-1	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0810	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0815	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	19-1	0935	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	1030	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-1	1035	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-1	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-1	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-1	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-1	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-1	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-1	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-1	1030	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-1	1035	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	22-1	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	22-1	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	22-1	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	22-1	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-1	0810	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)

F03I	23-1	0815	25060	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-1	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-1	0930	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	23-1	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-1	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-1	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0810	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0815	25060	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	0930	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(Subilo)
F03I	26-1	0935	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	1030	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-1	1035	15690	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-1	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-1	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-1	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-1	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-1	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-1	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-1	1030	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-1	1035	15690	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	29-1	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	29-1	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	29-1	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	29-1	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	30-1	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-1	0930	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(PY)
F03I	30-1	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-1	0935	6304	Fri	Polish intel.	QPSK 100Bd/464bp	(PY)
F03I	30-1	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	30-1	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F06	1-1	0700	10294	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	0710	8068	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	0720	6769	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	1200	10158	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	1210	8023	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	1220	6796	Thu	11166 70202 95847 30026 01199 and 11166 70202 32657 30027 02359	FSK 200/1000	(AB)
F06	1-1	1330	14471	Thu	11166 80214 50231 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	1-1	1340	12218	Thu	11166 80214 50231 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-1	1350	9933	Thu	11166 80214 50231 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-1	0700	10294	Fri	11166 70202 45192 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-1	0710	8068	Fri	11166 70202 45192 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-1	0720	6769	Fri	11166 70202 45192 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-1	1530	11525	Sun	11166 10053 25486 04001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	4-1	1540	10437	Sun	11166 10053 25486 04001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	4-1	1550	8137	Sun	11166 10053 25486 04001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	5-1	0500	6925	Mon	11166 70059 25413 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	5-1	0510	5235	Mon	11166 70059 25413 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	5-1	0520	4528	Mon	11166 70059 25413 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	5-1	0800	10175	Mon	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	5-1	0810	8153	Mon	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	5-1	0820	6807	Mon	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	6-1	0030	10177	Tue	11166 60070 81354 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	6-1	0040	9331	Tue	11166 60070 81354 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	6-1	0050	7959	Tue	11166 60070 81354 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	6-1	0700	10294	Tue	No transmissions	FSK 200/1000	(AB)
F06	6-1	0710	8068	Tue	No transmissions	FSK 200/1000	(AB)
F06	6-1	0720	6769	Tue	No transmissions	FSK 200/1000	(AB)
F06	6-1	0800	10175	Tue	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	6-1	0810	8153	Tue	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	6-1	0820	6807	Tue	11100 00000 91247 05025 01259	FSK 200/1000	(AB)
F06	6-1	1200	10158	Tue	No transmission	FSK 200/1000	(AB)
F06	6-1	1210	8023	Tue	No transmission	FSK 200/1000	(AB)
F06	6-1	1220	6796	Tue	No transmission	FSK 200/1000	(AB)
F06	6-1	1650	10651	Tue	11166 10053 32147 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-1	1700	8189	Tue	11166 10053 32147 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-1	1710	7457	Tue	11166 10053 32147 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-1	0700	10294	Thu	11166 70202 34285 07032 01839 and 11166 70202 96352 07033 01819	FSK 200/1000	(AB)
F06	8-1	0710	8068	Thu	11166 70202 34285 07032 01839 and 11166 70202 96352 07033 01819	FSK 200/1000	(AB)
F06	8-1	0720	6769	Thu	11166 70202 34285 07032 01839 and 11166 70202 96352 07033 01819	FSK 200/1000	(AB)
F06	8-1	1200	10158	Thu	No transmission	FSK 200/1000	(AB)
F06	8-1	1210	8023	Thu	No transmission	FSK 200/1000	(AB)
F06	8-1	1220	6796	Thu	No transmission	FSK 200/1000	(AB)
F06	8-1	1330	14471	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-1	1340	12218	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-1	1350	9933	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-1	0700	10294	Fri	11166 70202 59487 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-1	0710	8068	Fri	11166 70202 59487 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-1	0720	6769	Fri	11166 70202 59487 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-1	1700	9481	Sat	Active	FSK 200/1000	(FD)

F06	10-1	1710	7362	Sat	Active	FSK 200/1000	(FD)
F06	10-1	1720	5783	Sat	Active	FSK 200/1000	(FD)
F06	11-1	0830	11567	Sun	11100 00000 50694 10031 01939	FSK 200/1000	(PY)
F06	11-1	0840	9426	Sun	11100 00000 50694 10031 01939	FSK 200/1000	(PY)
F06	11-1	0850	7337	Sun	11100 00000 50694 10031 01939	FSK 200/1000	(PY)
F06	11-1	1530	11525	Sun	11166 10053 15926 11001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	11-1	1540	10437	Sun	11166 10053 15926 11001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	11-1	1550	8137	Sun	11166 10053 15926 11001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	12-1	0800	10175	Mon	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	12-1	0810	8153	Mon	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	12-1	0820	6807	Mon	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	13-1	0030	10177	Tue	11166 60070 13796 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	13-1	0040	9331	Tue	11166 60070 13796 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	13-1	0050	7959	Tue	11166 60070 13796 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	13-1	0700	10294	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	0710	8068	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	0720	6769	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	0800	10175	Tue	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	13-1	0810	8153	Tue	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	13-1	0820	6807	Tue	11100 00000 72684 12026 02079	FSK 200/1000	(AB)
F06	13-1	1200	10158	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	1210	8023	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	1220	6796	Tue	11166 70202 14685 12035 01539 and 11166 70202 89461 12036 01739	FSK 200/1000	(AB)
F06	13-1	1650	10651	Tue	11166 10053 15926 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-1	1700	8189	Tue	11166 10053 15926 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-1	1710	7457	Tue	11166 10053 15926 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-1	0700	10294	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	0710	8068	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	0720	6769	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	1200	10158	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	1210	8023	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	1220	6796	Thu	11166 70202 36485 14038 01959 and 11166 70202 24856 14039 01499	FSK 200/1000	(AB)
F06	15-1	1330	14471	Thu	11166 80214 95721 15039 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-1	1340	12218	Thu	11166 80214 95721 15039 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-1	1350	9933	Thu	11166 80214 95721 15039 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-1	0700	10294	Fri	11166 70202 85164 16057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-1	0710	8068	Fri	11166 70202 85164 16057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-1	0720	6769	Fri	11166 70202 85164 16057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-1	1720	5783	Sat	11100 00000 31679 16032 01959	FSK 200/1000	(PY)
F06	18-1	1530	11525	Sun	11166 10053 97315 18001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	18-1	1540	10437	Sun	11166 10053 97315 18001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	18-1	1550	8137	Sun	11166 10053 97315 18001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)

F06	18-1	1830	11567	Sun	11100 00000 31679 16032 01959	FSK 200/1000	(PY)
F06	19-1	0800	10175	Mon	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	19-1	0810	8153	Mon	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	19-1	0820	6807	Mon	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	20-1	0030	10177	Tue	11166 60070 95184 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-1	0040	9331	Tue	11166 60070 95184 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-1	0050	7959	Tue	11166 60070 95184 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-1	0700	10294	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	0710	8068	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	0720	6769	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	0800	10175	Tue	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	20-1	0810	8153	Tue	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	20-1	0820	6807	Tue	11100 00000 30258 16027 00859	FSK 200/1000	(AB)
F06	20-1	1200	10158	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	1210	8023	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	1220	6796	Tue	11166 70202 16328 19041 01519 and 11166 70202 21496 19042 02079	FSK 200/1000	(AB)
F06	20-1	1650	10651	Tue	11166 10053 15872 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-1	1700	8189	Tue	11166 10053 15872 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-1	1710	7457	Tue	11166 10053 15872 20001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-1	0700	10294	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	0710	8068	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	0720	6769	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	1200	10158	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	1210	8023	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	1220	6796	Thu	11166 70202 16485 21044 01859 and 11166 70202 34856 21045 01599	FSK 200/1000	(AB)
F06	22-1	1330	14471	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-1	1340	12218	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-1	1350	9933	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-1	0700	10294	Fri	11166 70202 85246 23051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-1	0710	8068	Fri	11166 70202 85246 23051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-1	0720	6769	Fri	11166 70202 85246 23051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-1	1700	9481	Sat	11100 00000 96341 23033 02239	FSK 200/1000	(PY)
F06	24-1	1710	7362	Sat	11100 00000 96341 23033 02239	FSK 200/1000	(PY)
F06	25-1	0830	11567	Sun	11100 00000 96341 23033 02239	FSK 200/1000	(AB/PY)
F06	25-1	0840	9426	Sun	11100 00000 96341 23033 02239	FSK 200/1000	(AB/PY)
F06	25-1	0850	7337	Sun	11100 00000 96341 23033 02239	FSK 200/1000	(AB)
F06	25-1	1530	11525	Sun	11166 10053 39457 25001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	25-1	1540	10437	Sun	11166 10053 39457 25001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	25-1	1550	8137	Sun	11166 10053 39457 25001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	26-1	0800	10175	Mon	11100 00000 95182 23028 01059	FSK 200/1000	(AB)
F06	26-1	0810	8153	Mon	11100 00000 95182 23028 01059	FSK 200/1000	(AB)
F06	26-1	0820	6807	Mon	11100 00000 95182 23028 01059	FSK 200/1000	(AB)

F06	27-1	0030	9175	Tue	11166 60070 98756 23078 01519	FSK 200/1000	(PY)
F06	27-1	0040	7936	Tue	11166 60070 98756 23078 01519	FSK 200/1000	(PY)
F06	27-1	0050	6975	Tue	11166 60070 98756 23078 01519	FSK 200/1000	(PY)
F06	27-1	0700	10294	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	0710	8068	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	0720	6769	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	0800	10175	Tue	11100 00000 95182 23028 01059	FSK 200/1000	(AB)
F06	27-1	0810	8153	Tue	11100 00000 95182 23028 01059	FSK 200/1000	(AB)
F06	27-1	0820	6807	Tue	11100 00000 95182 23028 01059	FSK 200/1000	(AB)
F06	27-1	1200	10158	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	1210	8023	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	1220	6796	Tue	11166 70202 98521 26047 01659 and 11166 70202 96412 26048 02179	FSK 200/1000	(AB)
F06	27-1	1650	10651	Tue	11166 10053 54783 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-1	1700	8189	Tue	11166 10053 54783 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-1	1710	7457	Tue	11166 10053 54783 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-1	0700	10294	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	0710	8068	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	0720	6769	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	1200	10158	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	1210	8023	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	1220	6796	Thu	11166 70202 41029 29050 00519 and 11166 70202 73842 29051 03159	FSK 200/1000	(AB)
F06	29-1	1330	14471	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000 (msg from 21-1)	FSK 200/1000	(AB)
F06	29-1	1340	12218	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000 (msg from 21-1)	FSK 200/1000	(AB)
F06	29-1	1350	9933	Thu	11166 80214 95721 21069 00049 00000 00000 00000 00000 (msg from 21-1)	FSK 200/1000	(AB)
F06	30-1	0700	10294	Fri	11166 70202 91342 30033 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-1	0710	8068	Fri	11166 70202 91342 30033 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-1	0720	6769	Fri	11166 70202 91342 30033 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-1	1700	9481	Sat	11100 00000 86341 30034 02339	FSK 200/1000	(AB/PY)
F06	31-1	1710	7362	Sat	11100 00000 86341 30034 02339	FSK 200/1000	(AB/PY)
F06	31-1	1720	5783	Sat	11100 00000 86341 30034 02339	FSK 200/1000	(AB/PY)
F06a	5-1	0700	10294	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	5-1	0715	8068	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	5-1	0730	6769	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	5-1	1200	10158	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	5-1	1215	8023	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	5-1	1230	6796	Mon	File 44428 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0600	13569	Wed	File 47476 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0615	14979	Wed	File 47476 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0630	16351	Wed	File 47476 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0700	10294	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0715	8068	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	0730	6769	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)

F06a	7-1	1200	10158	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	1215	8023	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	7-1	1230	6796	Wed	File 44431 (binary contents)	FSK 200/1000	(AB)
F06a	8-1	0600	13569	Thu	File 47476 (binary contents) (wrong 500Hz shift)	FSK 200/500	(AB)
F06a	8-1	0615	14979	Thu	File 47476 (binary contents)	FSK 200/1000	(AB)
F06a	8-1	0630	16351	Thu	File 47476 (binary contents)	FSK 200/1000	(AB)
F06a	10-1	1600	20955	Sat	Active, barely audible	FSK 200/1000	(AB)
F06a	10-1	1615	17443	Sat	Active, barely audible	FSK 200/1000	(AB)
F06a	10-1	1630	15880	Sat	Active, barely audible	FSK 200/1000	(AB)
F06a	12-1	0700	10294	Mon	File 44434 (binary contents)	FSK 200/1000	(AB)
F06a	12-1	0715	8068	Mon	File 44434 (binary contents)	FSK 200/1000	(AB)
F06a	12-1	0730	6769	Mon	File 44445 (binary contents)	FSK 200/1000	(AB)
F06a	12-1	1200	10158	Mon	File 44434 (binary contents)	FSK 200/1000	(AB)
F06a	12-1	1215	8023	Mon	File 44434 (binary contents)	FSK 200/1000	(AB)
F06a	12-1	1230	6796	Mon	File 44434 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0600	13569	Wed	File 44577 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0615	14979	Wed	File 44577 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0630	16351	Wed	File 44577 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0700	10294	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0715	8068	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	0730	6769	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	1200	10158	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	1215	8023	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	14-1	1230	6796	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	15-1	0600	13569	Thu	File 44577 (binary contents)	FSK 200/500	(AB)
F06a	15-1	0615	14979	Thu	File 44577 (binary contents)	FSK 200/1000	(AB)
F06a	15-1	0630	16351	Thu	File 44577 (binary contents)	FSK 200/1000	(AB)
F06a	18-1	1600	17429	Sun	Too weak to decode	FSK 200/1000	(AB)
F06a	18-1	1615	14421	Sun	Too weak to decode	FSK 200/1000	(AB)
F06a	18-1	1630	13373	Sun	Too weak to decode	FSK 200/1000	(AB)
F06a	19-1	0700	10294	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	19-1	0715	8068	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	19-1	0730	6769	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	19-1	1200	10158	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	19-1	1215	8023	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	19-1	1230	6796	Mon	File 44440 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0600	13569	Wed	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0615	14979	Wed	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0630	16351	Wed	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0700	10294	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0715	8068	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	0730	6769	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)

F06a	21-1	1200	10158	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	1215	8023	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)
F06a	21-1	1230	6796	Wed	File 44443 (binary contents)	FSK 200/1000	(AB)
F06a	22-1	0600	13569	Thu	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	22-1	0615	14979	Thu	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	22-1	0630	16351	Thu	File 84478 (binary contents)	FSK 200/1000	(AB)
F06a	24-1	1600	20955	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	24-1	1615	17443	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	24-1	1630	15880	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	25-1	1600	17429	Sun	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	25-1	1615	14421	Sun	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	25-1	1630	13373	Sun	File 44438 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	0700	10294	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	0715	8068	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	0730	6769	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	1200	10158	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	1215	8023	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	26-1	1230	6796	Mon	File 44446 (binary contents)	FSK 200/1000	(AB)
F06a	28-1	0600	13569	Wed	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	28-1	0615	14979	Wed	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	28-1	0630	16351	Wed	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	28-1	0700	10294	Wed	No transmission	FSK 200/1000	(AB)
F06a	28-1	0715	8068	Wed	No transmission	FSK 200/1000	(AB)
F06a	28-1	0730	6769	Wed	No transmission	FSK 200/1000	(AB)
F06a	28-1	1200	10158	Wed	File 44449 (binary contents)	FSK 200/1000	(AB)
F06a	28-1	1215	8023	Wed	File 44449 (binary contents)	FSK 200/1000	(AB)
F06a	28-1	1230	6796	Wed	File 44449 (binary contents)	FSK 200/1000	(AB)
F06a	29-1	0600	13569	Thu	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	29-1	0615	14979	Thu	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	29-1	0630	16351	Thu	File 43479 (binary contents)	FSK 200/1000	(AB-ISL)
F06a	30-1	2000	6815	Fri	File 44050 (binary contents)	FSK 200/1000	(AB)
F06a	30-1	2015	5794	Fri	File 44050 (binary contents)	FSK 200/1000	(AB)
F06a	30-1	2030	4816	Fri	File 44050 (binary contents)	FSK 200/1000	(AB)
F06a	31-1	0700	10169	Sat	File 44050 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-1	0715	9328	Sat	File 44050 (binary contents)	FSK 200/1000	(AB)
F06a	31-1	0730	8024	Sat	File 44050 (binary contents)	FSK 200/1000	(AB)
F06a	31-1	1600	20955	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	31-1	1615	17443	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	31-1	1630	15880	Sat	File 44438 (binary contents)	FSK 200/1000	(AB-FIN)
F07	1-1	2100	7461	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-1	2110	6979	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-1	2120	6783	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	27-1	2130	5841	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-1	2140	5318	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-1	2150	5081	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2100	7461	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2110	6979	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2120	6783	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2130	5841	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2140	5318	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-1	2150	5081	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
KRE	1-1	0818	11090	Thu	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	3-1	0729	14200	Sat	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1313	15500	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1357	11045	Mon	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1400	17140	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1417	11045	Mon	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1504	12850	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest (off 1515z)	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1505	12850	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13850 kHz (off 1509z)	DPRK ARQ 600/600 LSB	(AB)
KRE	5-1	1510	12850	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13850 kHz (off 1512z)	DPRK ARQ 600/600 LSB	(AB)
KRE	6-1	0732	13800	Tue	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
KRE	6-1	0804	13120	Tue	DPRK embassy Rome wkg DPRK embassy Moscow. QSX 13122 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	6-1	0806	13122	Tue	DPRK embassy Moscow wkg DPRK embassy Rome. QSX 13120 kHz	DPRK ARQ 1200/600 LSB	(AB)
KRE	6-1	0814	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 600/600 LSB	(AB)
KRE	7-1	0803	13120	Wed	DPRK embassy Bucharest wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	7-1	0803	14250	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	8-1	0704	17140	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	8-1	0714	14150	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	8-1	0822	13200	Thu	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 600/600 LSB	(AB)
KRE	8-1	1330	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	9-1	0702	17140	Fri	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 1200/600 LSB	(AB)
KRE	9-1	0713	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UK, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	9-1	0729	14200	Fri	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 1200/600 LSB	(AB)
KRE	12-1	1102	14300	Mon	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600	(AB)
KRE	12-1	1300	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600	(AB)
KRE	13-1	0727	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600	(AB)
KRE	14-1	0817	14620	Wed	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 1200/600	(AB)
KRE	22-1	0808	14250	Thu	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	22-1	0818	12890	Thu	DPRK embassy Warsawa wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	22-1	1026	14150	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	28-1	0812	13200	Wed	DPRK embassy Moscow msg 224 to DPRK embassy Warszawa. QSY freqs 11400, 13400 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	31-1	0728	16200	Sat	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	31-1	0806	13120	Sat	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	31-1	0810	13200	Sat	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)

KRE	31-1	0825	15500	Sat	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	31-1	0825	15555	Sat	DPRK embassy Bucharest wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	31-1	1230	17140	Sat	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
M01	1-1	2000	4490	Thu	197 921 921 30 30 = = 94231 80923 48412 ... 00421 63812 40021 = = 921 921 30 30 000	CW	(AB)
M01	6-1	1800	5320	Tue	197 453 453 30 30 = = 83901 (93901) 88590 44390 ... 10432 57481 94006 = = 453 453 30 30 000	CW	(AB-S)
M01	6-1	2000	4490	Tue	197 790 790 30 30 = = 47658 25453 22431 ... 44789 55787 36544 = = 790 790 30 30 000	CW	(AB)
M01	10-1	1500	5810	Sat	197 909 909 30 30 = = 65744 76371 20918 ... 56748 17625 37261 = = 909 909 30 30 000	CW	(AB)
M01	11-1	0659	5465	Sun	197 476 476 30 30 = = 53017 12314 37615 ... 57689 44986 09587 = = 476 476 30 30 000	CW	(AB)
M01	13-1	1800	5320	Tue	197 ... (too weak to copy)	CW	(AB-S)
M01	18-1	0659	5465	Sun	197 341 341 30 30 = = 31298 79412 42910 ... 87352 23756 32233 = = 341 341 31 30 000 Only 29 groups were sent	CW	(AB)
M01	20-1	2000	4490	Tue	197 889 899 30 30 = = (too weak to copy)	CW	(AB)
M01	25-1	0707	5465	Sun	Late start. No id. 619 619 30 30 = = 10592 07930 10592 ... 50391 58030 93061 = = 619 619 30 30 000	CW	(AB)
M01	27-1	2000	4490	Tue	197 209 30 209 30 = = 09890 38769 15434 ... 57789 33376 01109 = 209 30 209 30 000	CW	(AB)
M01	29-1	1800	5320	Thu	197 (R4m) off	CW	(AB-S)
M01	31-1	1500	5810	Sat	197 687 30 687 30 = = 50987 27645 11876 ... 26534 59867 10198 = = 687 30 687 30 000	CW	(AB-S)
M12	2-1	2200	6879	Fri	861 861 861 1 3161 72 3161 72 33985 54685 15509 ... 15430 50931 80691 000 000	CW	(PY)
M12	2-1	2220	7652	Fri	861 861 861 1 3161 72 3161 72 33985 54685 15509 ... 15430 50931 80691 000 000	CW	(PY)
M12	2-1	2240	8176	Fri	861 861 861 1 3161 72 3161 72 33985 54685 15509 ... 15430 50931 80691 000 000	CW	(PY)
M12	16-1	2200	6879	Fri	861 861 861 000	CW	(AB/RL)
M12	16-1	2220	7652	Fri	861 861 861 000	CW	(AB)
M12	17-1	2200	6879	Sat	861 861 861 000	CW	(AB)
M12	17-1	2220	7652	Sat	861 861 861 000	CW	(AB)
M12	22-1	1800	11564	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB)
M12	22-1	1820	10487	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB)
M12	22-1	1840	9319	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB)
M12	23-1	2200	6879	Fri	861 861 861 000	CW	(RL)
M12	29-1	1800	11564	Thu	258 258 258 1 7610 75 7610 75 68234 65045 48246 ... (too poor to copy)	CW	(AB)
M12	29-1	1820	10487	Thu	258 258 258 1 7610 75 7610 75 68234 65045 48246 ... (too poor to copy)	CW	(AB)
M12	29-1	1840	9319	Thu	258 258 258 1 7610 75 7610 75 68234 65045 48246 ... (too poor to copy)	CW	(AB)
M12	31-1	1900	11564	Sat	258 258 258 1 7723 164 7723 164 17612 28449 35931 ... 74296 19187 77662 000 000	CW	(AB)
M12	31-1	1920	10487	Sat	258 258 258 1 7723 164 7723 164 17612 28449 35931 ... 74296 19187 77662 000 000	CW	(AB)
M12	31-1	1940	9319	Sat	258 258 258 1 7723 164 7723 164 17612 28449 35931 ... 74296 19187 77662 000 000	CW	(AB)
M14	10-1	0930	17458	Sat	617 617 617 00000	CW	(AB)
M14	12-1	0500	12211	Mon	952 461 461 53 53 = = 22120 57488 60161 ... 56265 71603 71666 = = 461 461 53 53 00000	CW	(Subilo/AB)
M14	12-1	0520	10243	Mon	952 461 461 53 53 = = 22120 57488 60161 ... 56265 71603 71666 = = 461 461 53 53 00000	CW	(Subilo/AB)
M14	13-1	0500	12211	Tue	952 461 461 53 53 = = 22120 57488 60161 ... 56265 71603 71666 = = 461 461 53 53 00000	CW	(Subilo/AB)
M14	13-1	0520	10243	Tue	952 (R4m) off	CW	(Subilo/AB)
M14	14-1	0500	12211	Wed	952 104 104 23 23 = = 32810 93966 66268 ... 17042 86262 48174 = = 104 104 23 23 952 867 867 34 34 = = 79763 36576 59122 ... 33892 50007 63534 = = 867 867 34 34 00000	CW	(Subilo/AB)

M14	14-1	0520	10243	Wed	952 104 104 23 23 = = 32810 93966 66268 ... 17042 86262 48174 = = 104 104 23 23 952 867 867 34 34 = = 79763 36576 59122 ... 33892 50007 63534 = = 867 867 34 34 00000	CW	(Subilo/AB)
M14	15-1	0506	12211	Thu	Started late with group 9: 77113 ... 17042 86262 48174 = = 104 104 23 23 952 867 867 34 34 = = 79763 36576 59122 ... 33892 50007 63534 = = 867 867 34 34 00000	CW	(Subilo/AB)
M14	15-1	0520	10243	Thu	952 104 104 23 23 = = 32810 93966 66268 ... 17042 86262 48174 = = 104 104 23 23 952 867 867 34 34 = = 79763 36576 59122 ... 33892 50007 63534 = = 867 867 34 34 00000	CW	(Subilo/AB)
M14	16-1	0500	12211	Fri	952 952 952 00000	CW	(Subilo/AB)
M14	16-1	0520	10243	Fri	952 952 952 00000	CW	(Subilo/AB)
M14	19-1	0500	12211	Mon	952 301 301 56 56 = = 23475 40958 93288 ... 89575 71090 19272 = = 301 301 56 56 0000	CW	(Subilo/AB)
M14	19-1	0520	10243	Mon	952 301 301 56 56 = = 23475 40958 93288 ... 89575 71090 19272 = = 301 301 56 56 0000	CW	(Subilo/AB)
M14	20-1	0500	12211	Tue	952 301 301 56 56 = = 23475 40958 93288 ... 89575 71090 19272 = = 301 301 56 56 0000	CW	(Subilo/AB)
M14	20-1	0520	10243	Tue	952 301 301 56 56 = = 23475 40958 93288 ... 89575 71090 19272 = = 301 301 56 56 0000	CW	(Subilo/AB)
M14	21-1	0500	12211	Wed	952 784 784 26 26 = = 23573 15620 93896 97678 ... 96731 61881 88455 = = 784 784 26 26 952 630 630 29 29 = = 62833 28955 24617 ... 99239 78262 48902 = = 630 630 29 29 00000	CW	(Subilo/AB)
M14	21-1	0520	10243	Wed	952 784 784 26 26 = = 23573 15620 93896 97678 ... 96731 61881 88455 = = 784 784 26 26 952 630 630 29 29 = = 62833 28955 24617 ... 99239 78262 48902 = = 630 630 29 29 00000	CW	(Subilo/AB)
M14	21-1	1520	10212	Wed	Two series of beeps	CW	(PY)
M14	21-1	1530	10212	Wed	636 718 718 46 46 = = 73701 19207 73256 ... 23479 52996 48909 = = 718 718 46 46 00000	CW	(PY)
M14	22-1	0500	12211	Thu	952 630 630 29 29 = = 62833 28955 24617 ... 99239 78262 48902 = = 630 630 29 29 952 784 784 26 26 = = 23573 15620 93896 ... 96731 61881 88455 = = 784 784 26 26 00000	CW	(Subilo/AB)
M14	22-1	0520	10243	Thu	952 630 630 29 29 = = 62833 28955 24617 ... 99239 78262 48902 = = 630 630 29 29 952 784 784 26 26 = = 23573 15620 93896 ... 96731 61881 88455 = = 784 784 26 26 00000	CW	(Subilo/AB)
M14	23-1	0500	12211	Fri	952 952 952 00000	CW	(Subilo/AB)
M14	23-1	0520	10243	Fri	952 952 952 00000	CW	(Subilo/AB)
M14	25-1	0930	17458	Sun	617 617 617 00000	CW	(AB)
M14	26-1	0500	12211	Mon	952 841 841 56 56 = = 62244 87356 79131 ... 68301 92899 76622 = = 841 841 56 56 00000	CW	(Subilo/AB)
M14	26-1	0516	12211	Mon	952 841 841 56 56 = = 62244 87356 79131 04848 71459 38835 93131 05823 70955 off	CW	(Subilo/AB)
M14	26-1	0522	10243	Mon	141 92425 34393 15607 ... 68301 92899 76622 = = 841 841 56 56 00000	CW	(Subilo/AB)
M14	27-1	0506	12211	Tue	952 (R) off, back at 0506z with 2 08322 70068 03753 ... 68301 92899 76622 = = 841 841 56 56 00000	CW	(Subilo/AB)
M14	27-1	0520	10243	Tue	952 841 841 56 56 = = 62244 87356 79131 ... 68301 92899 76622 = = 841 841 56 56 00000	CW	(Subilo/AB)
M14	28-1	0500	12211	Wed	952 108 108 42 42 = = 44369 00405 25672 ... 58093 35465 62342 = = 108 108 42 42 952 736 736 14 14 = = 65265 68631 56815 ... 83381 56524 34254 = = 736 736 14 14 00000	CW	(Subilo/AB)
M14	28-1	0520	10243	Wed	952 108 108 42 42 = = 44369 00405 25672 ... 58093 35465 62342 = = 108 108 42 42 952 736 736 14 14 = = 65265 68631 56815 ... 83381 56524 34254 = = 736 736 14 14 00000	CW	(Subilo/AB)
M14	28-1	1523	10212	Wed	Two series of beeps	CW	(PY)
M14	28-1	1530	10212	Wed	636 502 502 41 41 = = 94479 03562 59935 ... 26351 10484 36138 = = 502 502 41 41 00000	CW	(PY)
M14	29-1	0500	12211	Thu	952 736 736 14 14 = = 65265 68631 56815 ... 83381 56524 34254 = = 736 736 14 14 952 108 108 42 42 = = 44369 00405 25672 ... 58093 35465 62342 = = 108 108 42 42 00000	CW	(Subilo/AB)
M14	29-1	0520	10243	Thu	952 736 736 14 14 = = 65265 68631 56815 ... 83381 56524 34254 = = 736 736 14 14 952 108 108 42 42 = = 44369 00405 25672 ... 58093 35465 62342 = = 108 108 42 42 00000	CW	(Subilo/AB)
M14	30-1	0500	12211	Fri	952 952 952 00000	CW	(Subilo/AB)

M14	30-1	0520	10243	Fri	952 952 952 00000	CW	(Subilo/AB)
M23	10-1	1704	6806	Sat	i.p. 5's and 0's	CW	(PY)
M23	11-1	1645	6961	Sun	0 (R3m)	CW	(TJ)
M23	11-1	1700	6961	Sun	0 (R3m)	CW	(TJ)
M23	11-1	1729	6961	Sun	0 (R3m)	CW	(AB)
M23	11-1	1744	6961	Sun	0 (R3m)	CW	(AB)
M23	11-1	1759	6961	Sun	0 (R3m)	CW	(AB)
M23	11-1	1830	6961	Sun	0 (R3m)	CW	(AB)
M23	11-1	1845	6961	Sun	0 (R3m)	CW	(AB)
M23	12-1	0529	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0544	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0600	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0630	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0645	6961	Mon	0 (R3m)	CW	(AB/TJ)
M23	12-1	0700	6961	Mon	0 (R3m)	CW	(AB/TJ)
M23	12-1	0730	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0745	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0800	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0830	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0845	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0900	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0929	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0944	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	0959	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1029	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1044	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1059	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1129	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1144	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1159	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1230	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1245	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1300	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1459	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1529	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1544	6961	Mon	0 (R3m)	CW	(AB)
M23	12-1	1900	6961	Mon	0 (R3m)	CW	(AB)
M23	13-1	0659	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	0729	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	0744	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1059	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1129	6961	Tue	0 (R3m)	CW	(AB)

M23	13-1	1144	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1459	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1529	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1544	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1900	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1930	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	1945	6961	Tue	0 (R3m)	CW	(AB)
M23	13-1	2259	6961	Tue	0 (R3m)	CW	(AB)
M23	14-1	0659	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	0659	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1059	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1059	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1129	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1129	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1144	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1144	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1459	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1459	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1529	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1529	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1544	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1544	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1900	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1900	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1930	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1930	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1945	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	1945	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	2300	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	2300	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	2330	6961	Wed	0 (R3m)	CW	(AB)
M23	14-1	2345	6961	Wed	0 (R3m)	CW	(AB)
M23	15-1	0300	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	0330	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	0345	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	0659	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	0729	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	0744	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1059	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1129	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1144	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1459	6961	Thu	0 (R3m)	CW	(AB)

M23	15-1	1529	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1544	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1900	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1930	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	1945	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	2300	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	2330	6961	Thu	0 (R3m)	CW	(AB)
M23	15-1	2345	6961	Thu	0 (R3m)	CW	(AB)
M23	16-1	0300	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0330	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0345	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0659	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0800	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0830	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	0845	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	1100	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	1130	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	1145	6961	Fri	0 (R3m)	CW	(AB)
M23	16-1	1435	6961	Fri	9 (R10m 36s)	CW	(AB)
M23	16-1	1600	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	1700	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	1800	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	1900	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	2000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	2100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	2200	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	16-1	2300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	17-1	0000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0400	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0500	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0600	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0700	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	0900	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1400	6961	Sat	9 (R10m 36s)	CW	(AB)

M23	17-1	1400	6961	Sat	9 (R10m 36s)	CW	(AB)
M23	17-1	1600	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1700	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	1900	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	2000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	2100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	2200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	17-1	2300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	18-1	0800	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	0900	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	18-1	1500	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	18-1	1600	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	1700	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	1800	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	1900	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	2000	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	2100	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	18-1	2200	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	19-1	0700	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	0800	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	0900	6961	Mon	0 (R9m 40s)	CW	(AB)
M23	19-1	0916	6961	Mon	0 (R2m 36s)	CW	(AB)
M23	19-1	1000	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1100	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1200	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1300	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1400	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1500	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1600	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1700	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1800	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	1900	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	2000	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	2100	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	2200	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	19-1	2300	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	20-1	0000	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0100	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0200	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0300	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0400	6961	Tue	0 (R10m 36s)	CW	(AB)

M23	20-1	0500	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0600	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0700	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	0800	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1000	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1100	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1200	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1300	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1400	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1500	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1600	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1700	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1800	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	1900	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	2000	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	2200	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	20-1	2300	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	21-1	0000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0300	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0400	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0500	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0600	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0700	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0800	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	0900	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1300	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1400	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1500	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1600	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1700	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1800	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	1900	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	2000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	2100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	2100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	21-1	2200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	22-1	0700	6961	Thu	0 (R10m 36s)	CW	(AB)

M23	22-1	0800	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	0900	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1000	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1100	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1200	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1300	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1400	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1500	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1600	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	22-1	1700	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	23-1	0700	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	0800	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	0900	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1200	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1400	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1500	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1600	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1700	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1800	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	1900	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	2000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	2100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	2200	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	23-1	2300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	24-1	0000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	0100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	0700	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	0800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	0900	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1400	6961	Sat	9 (R10m 36s)	CW	(AB)
M23	24-1	1500	6961	Sat	9 (R10m 36s)	CW	(AB)
M23	24-1	1600	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1700	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	1900	6961	Sat	0 (R10m 36s)	CW	(AB)

M23	24-1	2000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	2100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	2200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	24-1	2300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	25-1	0000	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0100	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0200	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0300	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0400	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0500	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0600	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0700	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0800	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	0900	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1000	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1100	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1200	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1300	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1400	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1500	6961	Sun	0 (R10m 36s)	CW	(BR)
M23	25-1	1600	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	1700	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	1800	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	1900	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	2000	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	2100	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	2200	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	25-1	2300	6961	Sun	0 (R10m 36s)	CW	(AB)
M23	26-1	0000	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0100	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0200	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0300	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0400	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0500	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0600	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0700	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	0800	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	1300	6961	Mon	0 (R10m 36s)	CW	(BR)
M23	26-1	1400	6961	Mon	0 (R10m 36s)	CW	(BR)
M23	26-1	1500	6961	Mon	0 (R10m 36s)	CW	(BR)
M23	26-1	1600	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	1700	6961	Mon	0 (R10m 36s)	CW	(AB)

M23	26-1	1800	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	1900	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	2000	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	26-1	2100	6961	Mon	0 (R10m 36s)	CW	(AB)
M23	27-1	0700	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	0800	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	0900	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	0900	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1000	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1100	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1200	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1300	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1400	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1500	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1600	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1700	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1800	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	1900	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	2000	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	2100	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	2200	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	27-1	2300	6961	Tue	0 (R10m 36s)	CW	(AB)
M23	28-1	0000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0300	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0400	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0500	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0600	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0700	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0800	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	0900	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1300	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1400	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1500	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1529	6961	Wed	RP RP RP ? KM KM DE VM K ... AA MERCI POUR QSO BB POUR EFFORT NUM = AR AR K	CW	(AB)
M23	28-1	1600	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1700	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	1800	6961	Wed	0 (R10m 36s)	CW	(AB)

M23	28-1	1900	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	2000	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	2100	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	2200	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	28-1	2300	6961	Wed	0 (R10m 36s)	CW	(AB)
M23	29-1	0000	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0100	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0200	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0300	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0400	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0500	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0600	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0700	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0800	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	0900	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1000	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1100	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1200	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1300	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1400	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1500	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1600	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1700	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1800	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	1900	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	2000	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	2100	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	2200	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	29-1	2300	6961	Thu	0 (R10m 36s)	CW	(AB)
M23	30-1	0000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0200	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0400	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0500	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0600	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0700	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0800	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	0900	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1200	6961	Fri	0 (R10m 36s)	CW	(AB)

M23	30-1	1300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1400	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1500	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1600	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1700	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1800	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	1900	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	2000	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	2100	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	2200	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	30-1	2300	6961	Fri	0 (R10m 36s)	CW	(AB)
M23	31-1	0000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	0100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	0200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	0800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	0900	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1300	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1400	6961	Sat	9 (R10m 36s)	CW	(AB)
M23	31-1	1500	6961	Sat	9 (R10m 36s)	CW	(AB)
M23	31-1	1600	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1700	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1800	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	1900	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	2000	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	2100	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	2200	6961	Sat	0 (R10m 36s)	CW	(AB)
M23	31-1	2300	6961	Sat	0 (R10m 36s)	CW	(AB)
M42	1-1	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message	FSK 75/500	(AB)
M42	8-1	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message	FSK 75/500	(AB)
M42	8-1	1300	18726	Thu	UAG: Russian embassy havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message	FSK 75/500	(AB-BER)
M42	9-1	0806	11078	Fri	Russian diplo	MFSK-66	(RO)
M42	9-1	0821	11088	Fri	Russian diplo	MFSK-66	(RO)
M42	13-1	1020	20815	Tue	Russian diplo	Serdolik v2	(RO)
M42	13-1	1021	20811	Tue	Russian diplo. Selcal	Serdolik v2	(RO)
M42	13-1	1023	20815	Tue	Russian diplo. Selcal	Serdolik v2	(RO)
M42	13-1	1024	20811	Tue	Russian diplo. Selcal	Serdolik v2	(RO)

M42	13-1	1025	20815	Tue	Russian diplo. Selcal	Serdolik v2	(RO)
M42	13-1	1124	20815	Tue	Russian diplo	Serdolik v2	(RO)
M42	15-1	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message	FSK 75/500	(AB)
M42	15-1	1300	18726	Thu	UAG: Russian embassy havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message	FSK 75/500	(AB-BER)
M42	22-1	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message	FSK 75/500	(AB)
M42	22-1	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message (too weak to copy)	FSK 75/500	(AB-BER)
M42	26-1	0801	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	26-1	0802	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	26-1	0813	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	29-1	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message	FSK 75/500	(AB)
M42	29-1	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message	FSK 75/500	(AB-USA)
M42b	1-1	0800	12121	Thu	SX3H wkg F5KA: QSA NO. Asks F5KA to change freq. SX3H also changes frequency QSW 050L0 at 0807 UTC	CW	(TJ)
M42b	3-1	0815	5751	Sat	RSN7D wkg G5OP. Headers like: 1 ? 326, 8 ? 326 long strings of ... OOOOOOO ... at 0821	FSK 50/500	(TJ)
M42b	5-1	1245	6905	Mon	Russian PtP station. IMTA wkg WL9P: wl9p de imta qsa4 qtc1 zzc zvp k, opchat and passing msg. Receives msg 022 ts 1251 fm W19P	CW + FSK 50/500	(TJ)
M51a	15-1	0930	3881	Thu	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by four messages. CQ DE FAV22 VA	CW	(AB)
M51a	15-1	0930	6825	Thu	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by four messages. CQ DE FAV22 VA	CW	(AB)
M51a	15-1	1030	3881	Thu	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by four messages. CQ DE FAV22 VA	CW	(AB)
M51a	15-1	1030	6825	Thu	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by four messages. CQ DE FAV22 VA	CW	(AB)
M51b	15-1	0816	3881	Thu	i.p. non-stop 5-character groups, composed of FAV22 messages	CW	(AB)
M51b	15-1	0816	6825	Thu	i.p. non-stop 5-character groups, composed of FAV22 messages	CW	(AB)
M51b	15-1	1000	3881	Thu	i.p. non-stop 5-character groups, composed of FAV22 messages	CW	(AB)
M51b	15-1	1000	6825	Thu	i.p. non-stop 5-character groups, composed of FAV22 messages	CW	(AB)
M85	4-1	1242	5450	Sun	i.p.	CW	(JPL)
M85	4-1	1250	5502	Sun	i.p. NR 008/CCK CK 91 91 0104 2035 RMKS 9133 TO 9595 =	CW	(JPL)
M85	4-1	1258	5566	Sun	i.p. NR 016/CCK CK 51 .. 0104 RMKS 7948 TO 7890 73.. 7486 7458 =	CW	(JPL)
M85	4-1	1312	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M85	8-1	1741	6886	Thu	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M89	1-1	1905	4522	Thu	V TG1Y (x3) DE X9FW (x2) Note: Change in call sign and frequency. Replaced 3JWV DE QH4P	CW	(JPL)
M89	1-1	1910	4906	Thu	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	1-1	1920	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)

M89	1-1	1920	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-1	1144	6884	Fri	i.p. NR 0028/EX CK 1.... RMKS 6688 TO 6689 = F8W2/P8RH AR	CW	(JPL)
M89	2-1	1215	4483	Fri	i.p.	CW	(JPL)
M89	2-1	1230	4522	Fri	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-1	1233	4545	Fri	i.p. NR 8693 CK 49 63 1031 0621 RMKS 9764 TO 9532 =	CW	(JPL)
M89	2-1	1250	5450	Fri	i.p.	CW	(JPL)
M89	2-1	1254	5454	Fri	i.p.	CW	(JPL)
M89	2-1	1300	5672	Fri	Y3JI DE N6WX	CW	(JPL)
M89	2-1	1310	6947	Fri	i.p.	CW	(JPL)
M89	2-1	1735	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-1	1735	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-1	1805	3239	Fri	i.p.	CW	(JPL)
M89	2-1	1815	3152	Fri	i.p. QSX 3212 kHz	CW	(JPL)
M89	3-1	1310	6947	Sat	i.p. FF NR 0006/EX 1839 RMKS FQ6M/FI8 AR K	CW	(JPL)
M89	3-1	1515	4554	Sat	i.p. 460/3811/3111/13/16/5111/313/B AR (rptd) NR 0003 CK 121 43 0103 2100 RMKS 8155 TO 8555 =	CW	(JPL)
M89	3-1	1820	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3-1	1820	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3-1	1825	4522	Sat	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	4-1	1228	4522	Sun	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	4-1	1235	5419	Sun	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	4-1	1318	4450	Sun	i.p.	CW	(JPL)
M89	4-1	1320	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-1	1320	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	5-1	1151	4156	Mon	NR 010 CK 61 35 0105 1517 =	CW	(JPL)
M89	5-1	1202	4522	Mon	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	5-1	1734	4906	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	5-1	1849	6123	Mon	i.p. switched to voice and unid digi mode	CW	(JPL)
M89	6-1	1129	4522	Tue	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	6-1	1155	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1155	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1203	5232	Tue	i.p.	CW	(JPL)
M89	6-1	1210	5750	Tue	VVV AYL (x3) DE M5W (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1219	5910	Tue	i.p.	CW	(JPL)
M89	6-1	1230	4720	Tue	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1230	5150	Tue	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1703	3345	Tue	i.p. F NR 018/EX 0104 RMKS 1539 TO 1538 = N2D3/M8A4 AR F NR 018/EX 0106 RMKS 1538 TO 1539 = N2D4/M8A4 AR (Both stn on this freq)	CW	(JPL)
M89	6-1	1717	3611	Tue	V TG1Y (x3) DE X9FW (x2) Note: New freq for this R/S.	CW	(JPL)
M89	6-1	1725	4478	Tue	VVV O4VB (x3) DE 6CPO (x2) SVC 925/XZ12/9578/68/67/16/X912A/COMM/0698 AR	CW	(JPL)
M89	6-1	1802	4123	Tue	i.p.	CW	(JPL)
M89	6-1	1816	4532.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)

M89	6-1	1820	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6-1	1820	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-1	1220	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-1	1220	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-1	1240	5784	Wed	i.p. - WSN9 working outstations F NR 1034/EX 2002 RMKS CQ = CA1/LF2 AR	CW	(JPL)
M89	7-1	1250	5402	Wed	i.p. NR 0144 CK 51 55 0107 2030 RMKS 0646 TO 5636 =	CW	(JPL)
M89	7-1	1257	4331	Wed	i.p.	CW	(JPL)
M89	7-1	1759	3333	Wed	i.p.	CW	(JPL)
M89	7-1	1804	3606	Wed	i.p.	CW	(JPL)
M89	7-1	1813	4522	Wed	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	7-1	1817	4906	Wed	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	8-1	1210	10485	Thu	i.p. SAT7 wkg CNV4: F NR 1103/EX 2014 RMKS CQ = RSM/KD AR F NR 1104 CK 99 43 0108 2000 RMKS CQ =	CW	(JPL)
M89	8-1	1228	4522	Thu	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-1	1235	3515	Thu	i.p. Both stations on this freq)	CW	(JPL)
M89	8-1	1247	3758	Thu	i.p. Both stations on this freq. NR 1004 CK 71 51 0108 2000 RMKS 8044 TO 8055 =	CW	(JPL)
M89	8-1	1259	3859	Thu	i.p. NR 0079/CCK CK 91 17 0108 2035 RMKS 4674 TO 4670 =	CW	(JPL)
M89	8-1	1305	4358	Thu	i.p. F NR 1105/EX 2106 RMKS 9953 TO 9959 = GOS/DF AR NR 1107 CK 99 32 0108 2000 RMKS 9953 TO 9959 =	CW	(JPL)
M89	8-1	1317	4781	Thu	i.p.	CW	(JPL)
M89	8-1	1318	4782	Thu	i.p.	CW	(JPL)
M89	8-1	1325	4901	Thu	i.p.	CW	(JPL)
M89	8-1	1803	4906	Thu	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	9-1	1218	7523	Fri	i.p.	CW	(JPL)
M89	9-1	1221	7501	Fri	i.p. NR 0008/EX 2020 = BBJ2/23AC AR QSY TO NR 09 QSY TO NR 09	CW	(JPL)
M89	9-1	1225	7577	Fri	i.p. NR 009/EX 2024 = T3D2/9D2V AR QSY TO NR 10 QSY TO NR 10	CW	(JPL)
M89	9-1	1228	7653	Fri	i.p. NR 010/EX 2027 = C8Z3/E2T5 AR SK SK SK	CW	(JPL)
M89	9-1	1240	3872	Fri	i.p.	CW	(JPL)
M89	9-1	1248	4522	Fri	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	9-1	1300	7922	Fri	i.p.	CW	(JPL)
M89	9-1	1305	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ?	CW	(JPL)
M89	9-1	1305	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Note: Normally, sked is at 20z pass the hour)	CW	(JPL)
M89	9-1	1316	4327	Fri	i.p. Both stations on the same freq	CW	(JPL)
M89	9-1	1321	3892	Fri	i.p. Both stations on the same freq	CW	(JPL)
M89	9-1	1327	3749	Fri	i.p.	CW	(JPL)
M89	9-1	1658	4906	Fri	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	9-1	1702	3810	Fri	i.p. Both stations on the same freq. NR 4011 CK 91 18 0110 0030 RMKS XXQX TO NNXX AR	CW	(JPL)
M89	9-1	1717	5232	Fri	i.p. NR 050/CCK CK 51 37 0110 0115 RMKS 7948 TO 7314 7312 7339 7378 = Note: Msg sent twice) Ended with VA VA	CW	(JPL)
M89	9-1	1738	4532.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	9-1	1756	5468	Fri	i.p. FF NR 365/EX 0155 = 114G/4E55 AR K	CW	(JPL)
M89	9-1	1820	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)

M89	9-1	1820	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10-1	1220	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10-1	1220	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10-1	1228	4522	Sat	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	10-1	1230	4906	Sat	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	10-1	1231	6565	Sat	i.p.	CW	(JPL)
M89	10-1	1234	6813	Sat	i.p.	CW	(JPL)
M89	10-1	1238	6833	Sat	i.p. RMKS 6689 TO 6674 =	CW	(JPL)
M89	10-1	1243	6789	Sat	i.p.	CW	(JPL)
M89	10-1	1255	7505	Sat	i.p.	CW	(JPL)
M89	10-1	1307	5672	Sat	Y3JI DE N6WX	CW	(JPL)
M89	10-1	1310	5237	Sat	i.p. FFF NR 028/EX 2115 = ..PQ/..CI AR QSY ... FFF NR 028/EX 2115 = 5MPQ/5PCI AR QSY .. QSY ..	CW	(JPL)
M89	10-1	1320	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10-1	1320	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10-1	1325	4637	Sat	NR....CK 081119 RMKS 81 TO .. = both stations on this freq	CW	(JPL)
M89	10-1	1328	4222	Sat	i.p.	CW	(JPL)
M89	11-1	1811	4522	Sun	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	11-1	1827	4906	Sun	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	12-1	1758	4522	Mon	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	12-1	1800	4906	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	12-1	1820	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	12-1	1820	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	13-1	1120	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	13-1	1120	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	13-1	1127	4522	Tue	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	13-1	1128	4906	Tue	V PD4N (x3) DE WY7H (x2) i.p.	CW	(JPL)
M89	13-1	1130	4726	Tue	V QPL (x3) DE 4WQ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-1	1846	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-1	1849	4522	Wed	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-1	1850	4906	Wed	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	18-1	1818	4522	Sun	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	18-1	1819	4906	Sun	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	18-1	1820	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	18-1	1820	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	18-1	1839	4286	Sun	i.p. QSX 4383 kHz	CW	(JPL)
M89	18-1	1842	4383	Sun	i.p. QSX 4286 kHz	CW	(JPL)
M89	19-1	1245	4890	Mon	i.p.	CW	(JPL)
M89	19-1	1250	4953	Mon	i.p.	CW	(JPL)
M89	19-1	1254	5238	Mon	i.p.	CW	(JPL)
M89	19-1	1257	5583	Mon	i.p.	CW	(JPL)
M89	19-1	1300	5630	Mon	i.p.	CW	(JPL)

M89	19-1	1302	5677	Mon	i.p.	CW	(JPL)
M89	19-1	1308	5683	Mon	i.p.	CW	(JPL)
M89	19-1	1311	5622	Mon	i.p.	CW	(JPL)
M89	19-1	1314	5472	Mon	i.p. FF NR 1642/EX 2140 = RMKS 2544 TO 9885 = YK3/XSD9 AR	CW	(JPL)
M89	19-1	1331	4725	Mon	i.p. 4518 1337 19-01 (JPL) M89 CW i.p. NR 012 CK 91 21 0119 2100 RMKS 5950 TO 5944 =	CW	(JPL)
M89	19-1	1339	4566	Mon	i.p.	CW	(JPL)
M89	19-1	1342	4545	Mon	i.p.	CW	(JPL)
M89	19-1	1345	4493	Mon	i.p. NR 94 CK 91 70 0119 2135 RMKS 5444 TO 8534 =	CW	(JPL)
M89	19-1	1352	4522	Mon	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	19-1	1811	4906	Mon	V GC6U (x3) DE XYG2 (x2) Change of call sign.	CW	(JPL)
M89	19-1	1834	5672	Mon	Y3JI DE N6WX M89 (Repeated)	CW	(JPL)
M89	19-1	1844	4795	Mon	i.p.	CW	(JPL)
M89	19-1	1848	4936	Mon	i.p. NR 7324 CK 99 75 0120 0230 RMKS 9317 TO 9505 =	CW	(JPL)
M89	19-1	1850	4392	Mon	i.p.	CW	(JPL)
M89	20-1	1603	4522	Tue	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-1	1604	4906	Tue	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	22-1	1205	4522	Thu	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	22-1	1652	4906	Thu	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	23-1	1605	4522	Fri	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	23-1	1620	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	23-1	1620	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	23-1	1645	3344	Fri	i.p. NR 010/EX 0000 = P2S7/L9GJ AR QSY 02	CW	(JPL)
M89	23-1	1650	3434	Fri	i.p. NR 038/EX 0005 FF X85W/J2V8 AR NR 038/EX 0006 = X8FW/J2V8 AR QSY 04 K	CW	(JPL)
M89	23-1	1713	4780	Fri	i.p.	CW	(JPL)
M89	24-1	1126	4522	Sat	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	26-1	1120	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	26-1	1120	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	26-1	1130	4720	Mon	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	26-1	1130	5150	Mon	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	26-1	1159	4522	Mon	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	27-1	1648	4522	Tue	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	27-1	1651	4906	Tue	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	29-1	1316	4522	Thu	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	29-1	1318	4508	Thu	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	29-1	1320	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	29-1	1653	6791	Thu	i.p.	CW	(JPL)
M89	30-1	1250	5232	Fri	i.p. too weak to copy	CW	(JPL)
M89	30-1	1255	5566	Fri	i.p. FFF NR 299/EX 2100 RMKS 5992 TO 5773 = PLM3/TGHH AR FFF NR .50/EX 2103 RMKS 57.3 TO = TSDT/JUL AR (Other station on this frequency)	CW	(JPL)
M89	30-1	1310	4522	Fri	V TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	30-1	1315	4065	Fri	i.p. NR 4656 CK 49 24 0130 2115 RMKS 2554 TO 2552 = (Other station on 4187)	CW	(JPL)
M89	30-1	1322	4187	Fri	i.p. RMKS 2552 TO 2554 =	CW	(JPL)

M89	30-1	1334	3360	Fri	i.p. RMKS 8576 TO 8552 =	CW	(JPL)
M89	30-1	1555	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	30-1	1555	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-1	1119	4168	Sat	i.p.	CW	(JPL)
M89	31-1	1120	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-1	1120	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-1	1130	4720	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	31-1	1130	5150	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	31-1	1318	7716	Sat	V GC6U (x3) DE XYG2 (x2) RMKS 1545 TO 5638 =	CW	(JPL)
M89	31-1	1318	7716	Sat	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	31-1	1331	4508	Sat	i.p. Note: Possibly GC6U DE XYG2	CW	(JPL)
M89	31-1	1648	4508	Sat	V GC6U (x3) DE XYG2 (x2)	CW	(JPL)
M89	31-1	1728	5672	Sat	Y3JI DE N6WX	CW	(JPL)
M95	1-1	1919	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-1	1148	4542	Fri	V BNGC DE XS30 NR 0007 CK 642 35 0102 1619 = //6876 kHz	CW	(JPL)
M95	2-1	1148	6876	Fri	V BNGC DE XS30 NR 0007 CK 642 35 0102 1619 = //4542 kHz	CW	(JPL)
M95	2-1	1151	4156	Fri	NR 03 CK 48 35 0102 1512 = NR 04 CK 145 35 0102 1526 = //9042 kHz	CW	(JPL)
M95	2-1	1151	9042	Fri	NR 03 CK 48 35 0102 1512 = NR 04 CK 145 35 0102 1526 = //4156 kHz	CW	(JPL)
M95	2-1	1309	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-1	1758	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-1	1758	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-1	1009	6557	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-1	1009	11475	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	5-1	1728	6886	Mon	V WCJJ (x3) DE HBDD (x2) RMKS CQ (too weak to copy)	CW	(JPL)
M95	5-1	1805	3618	Mon	i.p. RMKS 9764 TO 9736 =	CW	(JPL)
M95	5-1	1810	3540	Mon	i.p. NR .../CCK CK 58 16 0105 0200 RMKS 9736 TO 9764 =	CW	(JPL)
M95	5-1	1835	3568	Mon	i.p. NR .24/CCK CK 51 37 0105 0230 RMKS 7958 TO 7312 7386 8909 7834 = 3360 3360 LL HW LL SK SK	CW	(JPL)
M95	6-1	1111	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	6-1	1111	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	6-1	1139	4542	Tue	V BNGC DE XS30 NR 0024 CK 040 35 0106 1641 = NR 0025 CK 652 35 0106 1642 = //6876 kHz	CW	(JPL)
M95	6-1	1139	6876	Tue	V BNGC DE XS30 NR 0024 CK 040 35 0106 1641 = NR 0025 CK 652 35 0106 1642 = //4542 kHz	CW	(JPL)
M95	7-1	1216	5322	Wed	i.p. NR 0066/CCK CK 91 20 0107 1950 RMKS 3485 TO 3482	CW	(JPL)
M95	7-1	1219	5395	Wed	i.p. CXLB working CE5F, XTF2, CEQ8, and 1 more stn)	CW	(JPL)
M95	8-1	1208	11475	Thu	V WCJJ (x3) DE HBDD (x2) Chirpy sound today.	CW	(JPL)
M95	9-1	1655	6886	Fri	V WCJJ (x3) DE HBDD (x2) Chirpy sound	CW	(JPL)
M95	10-1	1333	6886	Sat	V WCJJ (x3) DE HBDD (x2) Chirpy sound	CW	(JPL)
M95	11-1	1804	3903	Sun	V WCJJ (x3) DE HBDD (x2) Chirpy sound	CW	(JPL)
M95	12-1	1756	6886	Mon	V WCJJ (x3) DE HBDD (x2) Chirpy sound. N/H on 3903	CW	(JPL)
M95	13-1	1155	4156	Tue	NR 0.6 CK .4 35 0113 1453 = NR 26 CK 2.1 35 0113 1515 = //9042 kHz	CW	(JPL)

M95	13-1	1155	9042	Tue	NR 0.6 CK .4 35 0113 1453 = NR 26 CK 2.1 35 0113 1515 = //4156 kHz	CW	(JPL)
M95	18-1	1836	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-1	2338	9392	Sun	i.p. NR 055 CK 137 35 0119 0708 =	CW	(JPL)
M95	18-1	2343	9042	Sun	NR 005 CK 44 35 0119 0612 = NR 006 CK 20 35 0119 0617 = NR 37 CK 111 35 0119 0655 =	CW	(JPL)
M95	19-1	1816	6886	Mon	V WCJJ (x3) DE HBDD (x2) Chirpy sound	CW	(JPL)
M95	20-1	1619	4542	Tue	BNGC DE XS30 NR ..5 CK 666 35 0ADA 014U =	CW	(JPL)
M95	22-1	1207	11475	Thu	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	22-1	1650	6886	Thu	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	22-1	1710	5232	Thu	i.p. NR 124/CCK CK 51 37 0123 0200 RMKS 7948 TO 7909 7845 7342 7351 =	CW	(JPL)
M95	23-1	1603	6886	Fri	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	23-1	1700	5232	Fri	VVV UBVE (x3) DE WKXI (x2) NR 131/CCK CK 51 39 0124 0100 RMKS 7948 TO 7890 7854 7312 7365 =	CW	(JPL)
M95	24-1	1123	11475	Sat	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	24-1	1140	4542	Sat	BNGC DE XS30 NR 0090 CK 36. 35 0124 1605 = //6886 kHz	CW	(JPL)
M95	24-1	1140	6886	Sat	BNGC DE XS30 NR 0090 CK 36. 35 0124 1605 = //4542 kHz	CW	(JPL)
M95	24-1	1145	4156	Sat	NR 048 CK 51 35 0124 1452 = NR 48 CK 175 35 0124 1513 =	CW	(JPL)
M95	24-1	1654	6886	Sat	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	24-1	1704	5395	Sat	i.p.	CW	(JPL)
M95	26-1	1141	4542	Mon	V BNGC DE XS30 NR 0094 CK 423 35 0126 1534 = //63876 kHz	CW	(JPL)
M95	26-1	1141	6876	Mon	V BNGC DE XS30 NR 0094 CK 423 35 0126 1534 = //4542 kHz	CW	(JPL)
M95	26-1	1152	4156	Mon	NR 052 CK 50 35 0126 1525 = //9042 kHz	CW	(JPL)
M95	26-1	1152	9042	Mon	NR 052 CK 50 35 0126 1525 = //4156 kHz	CW	(JPL)
M95	27-1	1652	6886	Tue	V WCJJ (x3) DE HBDD (x2) Chirpy sound.	CW	(JPL)
M95	29-1	1313	6886	Thu	V WCJJ (x3) DE HBDD (x2) Note: Chirpy sound gone.	CW	(JPL)
M95	29-1	1641	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-1	1641	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-1	1238	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-1	1326	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-1	1326	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	31-1	1045	4522	Sat	V TG1Y (x3) DE X9FW (x2) M89 (Remote tuner Japan) JPL SAT	CW	(JPL)
M95	31-1	1050	4065	Sat	i.p. NR 0003 CK 291 55 0131 1801 09 9991250 02 ZNN K	CW	(JPL)
M95	31-1	1111	6557	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SAT	CW	(JPL)
M95	31-1	1111	11475	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SAT	CW	(JPL)
M95	31-1	1157	9042	Sat	NR 052 CK 42 35 0131 1510 = NR 62 CK 185 35 0131 1512 =	CW	(JPL)
M95	31-1	1212	6352	Sat	NR 62 CK 185 35 0131 1512 = NR 047 CK 19 35 0131 1648 = //9042 kHz	CW	(JPL)
M95	31-1	1212	9042	Sat	NR 62 CK 185 35 0131 1512 = NR 047 CK 19 35 0131 1648 = //6352 kHz	CW	(JPL)
M95	31-1	1311	3903	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SAT	CW	(JPL)
M95	31-1	1311	6886	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SAT	CW	(JPL)
M95	31-1	1708	4478	Sat	i.p. NR 01/CCK CK 31 40 0201 0100 RMKS 8546 TO 8158 8405 4520 80815 8413 8494 8501 8410 =	CW	(JPL)
M95	31-1	1718	5232	Sat	i.p. NR 0.1/CCK CK 51 29 0201 0113 RMKS 7948 TO 7909 7834 ..44 7350 =	CW	(JPL)
NB	1-1	2040	6780	Thu	Unid a.k.a. New Buzzer	USB	(AB)

NB	1-1	2040	8049	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	2-1	1429	8049	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	2-1	1429	8210	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	2-1	1429	8400	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	2-1	1807	6780	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	2-1	1807	8049	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	3-1	1517	6830	Sat	Unid station a.k.a. New Buzzer (DSB spur on 6840 kHz)	USB	(AB)
NB	3-1	1517	8049	Sat	Unid station a.k.a. New Buzzer	USB	(AB)
NB	3-1	1517	8720	Sat	Unid station a.k.a. New Buzzer	USB	(AB)
NB	4-1	1634	6830	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	4-1	1634	8049	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	4-1	1634	8400	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	5-1	1527	6830	Mon	Unid station a.k.a. New Buzzer (spurs on 6840 7254, 7349 kHz at 1527z, gone at 1650z)	USB	(AB)
NB	5-1	1527	8049	Mon	Unid station a.k.a. New Buzzer (spurs on 6840 7254, 7349 kHz at 1527z, gone at 1650z)	USB	(AB)
NB	8-1	1706	6830	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	8-1	1706	8049	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	9-1	1715	6830	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	9-1	1715	8049	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-1	1756	6345	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-1	1756	7255	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-1	1756	8645	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	20-1	1455	6542	Tue	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	20-1	1455	8050	Tue	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	20-1	1455	8217	Tue	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	20-1	1455	8220	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	20-1	1455	8360	Tue	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	20-1	1455	8400	Tue	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	20-1	1455	8424	Tue	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	20-1	1455	8720	Tue	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	20-1	1640	8050	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	20-1	1640	8050	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	20-1	1640	8217	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	20-1	1640	8360	Tue	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	20-1	1640	8400	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	20-1	1640	8424	Tue	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	20-1	1640	8720	Tue	Unid station a.k.a. New Buzzer (continuous mode)	USB	(AB)
NB	21-1	0618	8209	Wed	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	21-1	0618	8217	Wed	Unid station a.k.a. New Buzzer into continuous mode at 0620z. (BW 5kHz)	USB	(AB)
NB	21-1	1647	8209	Wed	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	21-1	1647	8220	Wed	Unid station a.k.a. New Buzzer continuous mode (BW 3kHz)	USB	(AB)
NB	21-1	1647	8360	Wed	Unid station a.k.a. New Buzzer continuous mode (BW 5kHz)	USB	(AB)
NB	21-1	1647	8645	Wed	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)

NB	21-1	1710	6530	Wed	Unid station a.k.a. New Buzzer (BW 3kHz)	USB	(AB)
NB	21-1	1710	8213	Wed	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	21-1	2100	7580	Wed	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	21-1	2100	7600	Wed	Unid station a.k.a. New Buzzer (BW 5kHz)	USB	(AB)
NB	24-1	1650	9300	Sat	Continuous mode (BW 5kHz)	USB	(AB)
P03	1-1	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	1-1	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	1-1	0640	25060	Thu	Polish intel.	PSK	(PY)
P03	1-1	1950	6814	Thu	Polish intel.	PSK	(AB)
P03	1-1	1955	6814	Thu	Polish intel.	PSK	(AB)
P03	2-1	0530	4181	Fri	Polish intel.	PSK	(AB)
P03	2-1	0535	4181	Fri	Polish intel.	PSK	(AB)
P03	2-1	1100	5815	Fri	Polish intel.	PSK	(AB)
P03	2-1	1105	5815	Fri	Polish intel.	PSK	(AB)
P03	2-1	1515	16125	Fri	Polish intel.	PSK	(AB)
P03	2-1	1520	16125	Fri	Polish intel.	PSK	(AB)
P03	3-1	1020	4505	Sat	Polish intel.	PSK	(AB)
P03	3-1	1025	4505	Sat	Polish intel.	PSK	(AB)
P03	3-1	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	3-1	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	3-1	1310	7850	Sat	Polish intel.	PSK	(AB)
P03	3-1	1315	7850	Sat	Polish intel.	PSK	(AB)
P03	4-1	0530	4181	Sun	Polish intel.	PSK	(AB)
P03	4-1	0535	4181	Sun	Polish intel.	PSK	(AB)
P03	4-1	1020	4505	Sun	Polish intel.	PSK	(AB)
P03	4-1	1025	4505	Sun	Polish intel.	PSK	(AB)
P03	4-1	1100	5815	Sun	Polish intel.	PSK	(AB)
P03	4-1	1105	5815	Sun	Polish intel.	PSK	(AB)
P03	4-1	1220	23353	Sun	Polish intel.	PSK	(AB)
P03	4-1	1225	23353	Sun	Polish intel.	PSK	(AB)
P03	4-1	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	4-1	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	4-1	1515	16125	Sun	Polish intel.	PSK	(AB)
P03	4-1	1520	16125	Sun	Polish intel.	PSK	(AB)
P03	4-1	1725	10800	Sun	Polish intel.	PSK	(AB)
P03	4-1	1730	10800	Sun	Polish intel.	PSK	(AB)
P03	4-1	1950	6814	Sun	Polish intel.	PSK	(AB)
P03	4-1	1955	6814	Sun	Polish intel.	PSK	(AB)
P03	5-1	1220	23353	Mon	Polish intel.	PSK	(AB)
P03	5-1	1225	23353	Mon	Polish intel.	PSK	(AB)
P03	6-1	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	6-1	0435	6252	Tue	Polish intel.	PSK	(AB)

P03	6-1	0635	25060	Tue	Polish intel.	PSK	(PY)
P03	6-1	1725	10800	Tue	Polish intel.	PSK	(AB)
P03	6-1	1730	10800	Tue	Polish intel.	PSK	(AB)
P03	7-1	1310	7850	Wed	Polish intel.	PSK	(AB)
P03	7-1	1315	7850	Wed	Polish intel.	PSK	(AB)
P03	8-1	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	8-1	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	8-1	0635	25060	Thu	Polish intel.	PSK	(Subilo)
P03	8-1	1950	6814	Thu	Polish intel.	PSK	(AB)
P03	8-1	1955	6814	Thu	Polish intel.	PSK	(AB)
P03	9-1	0530	4181	Fri	Polish intel.	PSK	(AB)
P03	9-1	0535	4181	Fri	Polish intel.	PSK	(AB)
P03	9-1	1100	5815	Fri	Polish intel.	PSK	(AB)
P03	9-1	1105	5815	Fri	Polish intel.	PSK	(AB)
P03	9-1	1515	16125	Fri	Polish intel.	PSK	(AB)
P03	9-1	1520	16125	Fri	Polish intel.	PSK	(AB)
P03	10-1	1020	4505	Sat	Polish intel.	PSK	(AB)
P03	10-1	1025	4505	Sat	Polish intel.	PSK	(AB)
P03	10-1	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	10-1	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	10-1	1310	7850	Sat	Polish intel.	PSK	(AB)
P03	10-1	1315	7850	Sat	Polish intel.	PSK	(AB)
P03	11-1	0530	4181	Sun	Polish intel.	PSK	(AB)
P03	11-1	0535	4181	Sun	Polish intel.	PSK	(AB)
P03	11-1	1020	4505	Sun	Polish intel.	PSK	(AB)
P03	11-1	1025	4505	Sun	Polish intel.	PSK	(AB)
P03	11-1	1100	5815	Sun	Polish intel.	PSK	(AB)
P03	11-1	1105	5815	Sun	Polish intel.	PSK	(AB)
P03	11-1	1220	23353	Sun	Polish intel.	PSK	(AB)
P03	11-1	1225	23353	Sun	Polish intel.	PSK	(AB)
P03	11-1	1515	16125	Sun	Polish intel.	PSK	(AB)
P03	11-1	1520	16125	Sun	Polish intel.	PSK	(AB)
P03	11-1	1725	10800	Sun	Polish intel.	PSK	(AB)
P03	11-1	1730	10800	Sun	Polish intel.	PSK	(AB)
P03	11-1	1950	6814	Sun	Polish intel.	PSK	(AB)
P03	11-1	1955	6814	Sun	Polish intel.	PSK	(AB)
P03	12-1	1220	23353	Mon	Polish intel.	PSK	(AB)
P03	12-1	1225	23353	Mon	Polish intel.	PSK	(AB)
P03	13-1	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	13-1	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	13-1	0635	25060	Tue	Polish intel.	PSK	(Subilo)
P03	13-1	1725	10800	Tue	Polish intel.	PSK	(AB)

P03	13-1	1730	10800	Tue	Polish intel.	PSK	(AB)
P03	14-1	1310	7850	Wed	Polish intel.	PSK	(AB)
P03	14-1	1315	7850	Wed	Polish intel.	PSK	(AB)
P03	15-1	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	15-1	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	15-1	0635	25060	Thu	Polish intel.	PSK	(Subilo)
P03	15-1	1950	6814	Thu	Polish intel.	PSK	(AB)
P03	15-1	1955	6814	Thu	Polish intel.	PSK	(AB)
P03	16-1	0530	4181	Fri	Polish intel.	PSK	(AB)
P03	16-1	0535	4181	Fri	Polish intel.	PSK	(AB)
P03	16-1	1100	5815	Fri	Polish intel.	PSK	(AB)
P03	16-1	1105	5815	Fri	Polish intel.	PSK	(AB)
P03	16-1	1515	16125	Fri	Polish intel.	PSK	(AB)
P03	16-1	1520	16125	Fri	Polish intel.	PSK	(AB)
P03	17-1	1020	4505	Sat	Polish intel.	PSK	(AB)
P03	17-1	1025	4505	Sat	Polish intel.	PSK	(AB)
P03	17-1	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	17-1	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	17-1	1310	7850	Sat	Polish intel.	PSK	(AB)
P03	17-1	1315	7850	Sat	Polish intel.	PSK	(AB)
P03	18-1	0530	4181	Sun	Polish intel.	PSK	(AB)
P03	18-1	0535	4181	Sun	Polish intel.	PSK	(AB)
P03	18-1	1020	4505	Sun	Polish intel.	PSK	(AB)
P03	18-1	1025	4505	Sun	Polish intel.	PSK	(AB)
P03	18-1	1100	5815	Sun	Polish intel.	PSK	(AB)
P03	18-1	1105	5815	Sun	Polish intel.	PSK	(AB)
P03	18-1	1220	23353	Sun	Polish intel.	PSK	(AB)
P03	18-1	1225	23353	Sun	Polish intel.	PSK	(AB)
P03	18-1	1515	16125	Sun	Polish intel.	PSK	(AB)
P03	18-1	1520	16125	Sun	Polish intel.	PSK	(AB)
P03	18-1	1950	6814	Sun	Polish intel.	PSK	(AB)
P03	18-1	1955	6814	Sun	Polish intel.	PSK	(AB)
P03	19-1	1220	23353	Mon	Polish intel.	PSK	(AB)
P03	19-1	1225	23353	Mon	Polish intel.	PSK	(AB)
P03	20-1	1725	10800	Tue	Polish intel.	PSK	(AB)
P03	20-1	1730	10800	Tue	Polish intel.	PSK	(AB)
P03	21-1	1310	7850	Wed	Polish intel.	PSK	(AB)
P03	21-1	1315	7850	Wed	Polish intel.	PSK	(AB)
P03	22-1	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	22-1	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	22-1	1950	6814	Thu	Polish intel.	PSK	(AB)
P03	22-1	1955	6814	Thu	Polish intel.	PSK	(AB)

P03	23-1	0530	4181	Fri	Polish intel.	PSK	(AB)
P03	23-1	0535	4181	Fri	Polish intel.	PSK	(AB)
P03	23-1	1515	16125	Fri	Polish intel.	PSK	(AB)
P03	23-1	1520	16125	Fri	Polish intel.	PSK	(AB)
P03	24-1	1020	4505	Sat	Polish intel.	PSK	(AB)
P03	24-1	1025	4505	Sat	Polish intel.	PSK	(AB)
P03	24-1	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	24-1	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	24-1	1310	7850	Sat	Polish intel.	PSK	(AB)
P03	24-1	1315	7850	Sat	Polish intel.	PSK	(AB)
P03	25-1	0530	4181	Sun	Polish intel.	PSK	(AB)
P03	25-1	0535	4181	Sun	Polish intel.	PSK	(AB)
P03	25-1	1020	4505	Sun	Polish intel.	PSK	(AB)
P03	25-1	1025	4505	Sun	Polish intel.	PSK	(AB)
P03	25-1	1100	5815	Sun	Polish intel.	PSK	(AB)
P03	25-1	1105	5815	Sun	Polish intel.	PSK	(AB)
P03	25-1	1220	23353	Sun	Polish intel.	PSK	(AB)
P03	25-1	1225	23353	Sun	Polish intel.	PSK	(AB)
P03	25-1	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	25-1	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	25-1	1515	16125	Sun	Polish intel.	PSK	(AB)
P03	25-1	1520	16125	Sun	Polish intel.	PSK	(AB)
P03	25-1	1950	6814	Sun	Polish intel.	PSK	(AB)
P03	25-1	1955	6814	Sun	Polish intel.	PSK	(AB)
P03	26-1	1220	23353	Mon	Polish intel.	PSK	(AB)
P03	26-1	1225	23353	Mon	Polish intel.	PSK	(AB)
P03	27-1	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	27-1	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	27-1	1725	10800	Tue	Polish intel.	PSK	(AB)
P03	27-1	1730	10800	Tue	Polish intel.	PSK	(AB)
P03	28-1	1310	7850	Wed	Polish intel.	PSK	(AB)
P03	28-1	1315	7850	Wed	Polish intel.	PSK	(AB)
P03	29-1	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	29-1	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	29-1	1950	6814	Thu	Polish intel.	PSK	(AB)
P03	29-1	1955	6814	Thu	Polish intel.	PSK	(AB)
P03	30-1	1100	5815	Fri	Polish intel.	PSK	(AB)
P03	30-1	1105	5815	Fri	Polish intel.	PSK	(AB)
P03	30-1	1515	16125	Fri	Polish intel.	PSK	(AB)
P03	30-1	1520	16125	Fri	Polish intel.	PSK	(AB)
P03	31-1	1020	4505	Sat	Polish intel.	PSK	(AB)
P03	31-1	1025	4505	Sat	Polish intel.	PSK	(AB)

P03	31-1	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	31-1	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	31-1	1310	7850	Sat	Polish intel.	PSK	(AB)
P03	31-1	1315	7850	Sat	Polish intel.	PSK	(AB)
P03g	1-1	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	1-1	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	2-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	2-1	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	5-1	0950	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	5-1	0955	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	6-1	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	6-1	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	6-1	1100	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	6-1	1105	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	0950	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	0955	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	1100	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	1105	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	7-1	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-1	1321	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	8-1	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	8-1	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	9-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	9-1	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-1	1321	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	12-1	0950	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	12-1	0955	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	13-1	1100	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	13-1	1105	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	0950	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	0955	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	1100	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	1105	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	14-1	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-1	1321	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	15-1	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)

P03g	15-1	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	16-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	16-1	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-1	1321	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	19-1	0950	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	19-1	0955	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	20-1	1100	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	20-1	1105	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	0950	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	0955	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	1100	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	1105	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	21-1	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-1	1321	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	22-1	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	22-1	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB-POL)
P03g	23-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	23-1	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-1	0950	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-1	0955	13825	Mon	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	27-1	1100	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	27-1	1105	11092	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	0950	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	0955	13825	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	1100	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	1105	11092	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	28-1	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-1	1321	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	30-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-1	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03g	30-1	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-1	1321	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(PY)
P03i	1-1	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	1-1	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	1-1	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	1-1	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)

P03i	6-1	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-1	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-1	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-1	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	8-1	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	8-1	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	8-1	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	8-1	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-1	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-1	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-1	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-1	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	15-1	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	15-1	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	15-1	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	15-1	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-1	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-1	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-1	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-1	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	22-1	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	22-1	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	22-1	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	22-1	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-1	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-1	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	29-1	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	29-1	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	29-1	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	29-1	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03j	1-1	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	1-1	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-1	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-1	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-1	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-1	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-1	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-1	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-1	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-1	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-1	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-1	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)

P03j	22-1	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	22-1	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-1	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-1	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	29-1	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	29-1	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03k	3-1	0630	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-1	0635	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-1	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-1	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-1	1730	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-1	1735	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	4-1	0630	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	4-1	0635	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-1	1230	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-1	1235	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-1	1730	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-1	1735	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	0630	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	0635	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	1730	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-1	1735	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	11-1	0630	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	11-1	0635	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-1	1230	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-1	1235	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-1	1730	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-1	1735	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	0630	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	0635	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	1730	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-1	1735	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-1	0630	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-1	0635	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-1	1230	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-1	1235	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-1	1730	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-1	1735	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	24-1	0630	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-1	0635	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-1	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-1	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-1	1730	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-1	1735	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-1	0630	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-1	0635	6940	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-1	1230	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-1	1235	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-1	1730	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-1	1735	5831	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	0630	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	0635	6940	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	1730	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-1	1735	5831	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	1-1	1200	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	1-1	1205	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	2-1	1345	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	2-1	1350	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-1	1200	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-1	1205	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-1	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-1	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-1	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-1	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-1	1345	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-1	1350	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-1	1200	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-1	1205	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-1	1345	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-1	1350	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-1	1200	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-1	1205	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	13-1	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	13-1	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	14-1	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	14-1	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	14-1	1345	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	14-1	1350	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	15-1	1200	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-1	1205	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-1	1345	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-1	1350	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-1	1200	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-1	1205	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-1	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-1	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-1	1345	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-1	1350	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-1	1200	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-1	1200	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-1	1205	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-1	1205	8102	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-1	1345	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-1	1350	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-1	1200	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-1	1205	8102	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-1	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-1	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-1	1345	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-1	1350	11420	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-1	1345	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-1	1350	11420	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	4-1	1500	7584	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	4-1	1510	6926	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	4-1	1520	5814	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	4-1	1530	5471	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	4-1	1540	5094	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	4-1	1550	4639	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1500	7584	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1510	6926	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1520	5814	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1530	5471	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1540	5094	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-1	1550	4639	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1500	7584	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1510	6926	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1520	5814	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1530	5471	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1540	5094	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	11-1	1550	4639	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	14-1	1500	7584	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-1	1510	6926	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-1	1520	5814	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-1	1530	5471	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-1	1540	5094	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-1	1550	4639	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1500	7584	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1510	6926	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1520	5814	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1530	5471	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1540	5094	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	18-1	1550	4639	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1500	7584	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1510	6926	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1520	5814	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1530	5471	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1540	5094	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-1	1550	4639	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1500	7584	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1510	6926	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1520	5814	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1530	5471	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1540	5094	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	25-1	1550	4639	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1500	7584	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1510	6926	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1520	5814	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1530	5471	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1540	5094	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-1	1550	4639	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	2-1	1100	12763	Fri	1985 20 51 0102 1645 7PFF---N8PV 1213 0030 5330 8657 4658 7147 9909 5719 3332 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	2-1	1142	4542	Fri	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-1	1142	6876	Fri	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-1	1210	4338	Fri	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	3-1	1826	5569	Sat	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-1	1100	12763	Sun	5132 16 51 0104 1050 7PFF---K53B 1213 0030 4420 4620 4992 7003 4685 5066 0144 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	4-1	1100	12763	Sun	0711 17 51 0103 1630 7994 24 51 0103 1735 7PFF---NMB6 1213 0030 6110 0660 3772 5293 6102 4298 7931 5950 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	5-1	1100	12763	Mon	LELW LELW LELW DE GZ2D GZ2D GZ2D XYXYXYXYXY HR MSG GA 9641 18 51 0105 1540 7PFF---M86P 1213 0030 1980 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	6-1	1100	12763	Tue	5870 20 51 0106 1025 GQVV---2TQV 1213 0030 4780 8428 7925 6986 7056 1221 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	6-1	1139	4542	Tue	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)

Q26	6-1	1139	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	7-1	1820	5254	Wed	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-1	2343	9042	Sun	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	20-1	1610	4542	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	22-1	1058	12763	Thu	HZVC HNVC HZVC DE P9B8 P9B8 XYXYXYXYXY HR MSG GA 6072 27 51 0122 1845 ...	4+4 QPSK 75/1000 LSB	(EW)
Q26	24-1	1133	4542	Sat	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	24-1	1133	6886	Sat	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	26-1	1131	4542	Mon	Message //6878 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	26-1	1131	6876	Mon	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	26-1	1144	4156	Mon	Message //9042 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	26-1	1144	9042	Mon	Message //4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	30-1	1702	5395	Fri	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	31-1	1132	6876	Sat	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	31-1	1701	5395	Sat	Message	4+4 QPSK 75/1000 LSB	(JPL)
S06	2-1	2000	7923	Fri	842 842 842 000000	USB	(AB-S)
S06	2-1	2100	5943	Fri	842 842 842 000000	USB	(AB-S)
S06	12-1	0400	11616	Mon	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	12-1	0400	11616	Mon	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	12-1	0420	9322	Mon	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	12-1	0420	9322	Mon	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	13-1	0400	11616	Tue	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	13-1	0420	9322	Tue	480 659 57 58993 65685 92439 ... 18173 66138 93521 659 57 00000	USB	(Subilo/AB)
S06	14-1	0400	11616	Wed	480 319 24 79742 06553 59761 ... 31243 40123 78098 319 24 480 712 36 54278 40466 52750 ... 53803 87124 52233 712 36 00000	USB	(Subilo/AB)
S06	14-1	0420	9322	Wed	480 319 24 79742 06553 59761 ... 31243 40123 78098 319 24 480 712 36 54278 40466 52750 ... 53803 87124 52233 712 36 00000	USB	(Subilo/AB)
S06	15-1	0400	11616	Thu	480 319 24 79742 06553 59761 ... 31243 40123 78098 319 24 480 712 36 54278 40466 52750 ... 53803 87124 52233 712 36 00000	USB	(Subilo/AB)
S06	15-1	0420	9322	Thu	480 319 24 79742 06553 59761 ... 31243 40123 78098 319 24 480 712 36 54278 40466 52750 ... 53803 87124 52233 712 36 00000	USB	(Subilo/AB)
S06	16-1	0400	11616	Fri	480 480 480 00000	USB	(Subilo/AB)
S06	16-1	0420	9322	Fri	480 480 480 00000	USB	(Subilo/AB)
S06	16-1	2000	7923	Fri	842 842 842 00000	USB	(AB)
S06	16-1	2100	5943	Fri	842 842 842 00000	USB	(AB)
S06	19-1	0400	11616	Mon	480 762 53 27514 16458 97485 ... 28711 16795 14812 762 53 00000	USB	(Subilo/AB)
S06	19-1	0420	9322	Mon	480 762 53 27514 16458 97485 ... 28711 16795 14812 762 53 00000	USB	(Subilo/AB)
S06	20-1	0400	11616	Tue	480 762 53 27514 16458 97485 ... 28711 16795 14812 762 53 00000	USB	(Subilo/AB)
S06	20-1	0420	9322	Tue	480 762 53 27514 16458 97485 ... 28711 16795 14812 762 53 00000	USB	(Subilo/AB)
S06	21-1	0400	11616	Wed	480 531 22 86427 76984 73672 ... 70804 63646 31950 531 22 480 697 34 08110 29336 83582 ... 27624 46574 35766 697 34 00000	USB	(Subilo/AB)
S06	21-1	0420	9322	Wed	480 531 22 86427 76984 73672 ... 70804 63646 31950 531 22 480 697 34 08110 29336 83582 ... 27624 46574 35766 697 34 00000	USB	(Subilo/AB)

S06	21-1	1720	9425	Wed	480 ... 25259 ... too weak to copy	USB	(PY)
S06	22-1	0400	11616	Thu	480 531 22 86427 76984 73672 ... 70804 63646 31950 531 22 480 697 34 08110 29336 83582 ... 27624 46574 35766 697 34 00000	USB	(Subilo/AB)
S06	22-1	0420	9322	Thu	480 531 22 86427 76984 73672 ... 70804 63646 31950 531 22 480 697 34 08110 29336 83582 ... 27624 46574 35766 697 34 00000	USB	(Subilo/AB)
S06	23-1	0400	11616	Fri	480 480 480 000	USB	(Subilo/AB)
S06	23-1	0420	9322	Fri	480 480 480 000	USB	(Subilo/AB)
S06	26-1	0400	11616	Mon	480 521 60 43814 87249 64165 ... 09225 34644 47916 521 60 00000	USB	(Subilo/AB)
S06	26-1	0420	9322	Mon	480 521 60 43814 87249 64165 ... 09225 34644 47916 521 60 00000	USB	(Subilo/AB)
S06	27-1	0400	11616	Tue	480 521 60 43814 87249 64165 ... 09225 34644 47916 521 60 00000	USB	(Subilo/AB)
S06	27-1	0420	9322	Tue	480 521 60 43814 87249 64165 ... 09225 34644 47916 521 60 00000	USB	(Subilo/AB)
S06	28-1	0400	11616	Wed	480 216 37 75460 81296 32040 ... 04535 58172 32485 216 37 480 973 21 99383 59632 37752 ... 28214 63821 42628 973 21 00000	USB	(Subilo/AB)
S06	28-1	0420	9322	Wed	480 216 37 75460 81296 32040 ... 04535 58172 32485 216 37 480 973 21 99383 59632 37752 ... 28214 63821 42628 973 21 00000	USB	(Subilo/AB)
S06	28-1	1730	9425	Wed	480 ... __527 10873 6____ 5_88_ ... overpowered by Voice of Korea	USB	(PY)
S06	29-1	0400	11616	Thu	480 973 21 99383 59632 37752 ... 28214 63821 42628 973 21 480 216 37 75460 81296 32040 ... 04535 58172 32485 216 37 00000 Same message as on 28-1 in reverse order	USB	(Subilo/AB)
S06	29-1	0420	9322	Thu	480 973 21 99383 59632 37752 ... 28214 63821 42628 973 21 480 216 37 75460 81296 32040 ... 04535 58172 32485 216 37 00000 Same message as on 28-1 in reverse order	USB	(Subilo/AB)
S06	30-1	0420	9322	Fri	480 480 480 00000	USB	(Subilo/AB)
S11a	1-1	0700	9050	Thu	477/00 Konets	USB	(AB/Lac)
S11a	2-1	0725	19515	Fri	382/00 Konets	USB	(AB/Lac)
S11a	2-1	0915	6252	Fri	485/00 Konets	USB	(AB)
S11a	2-1	0915	6252	Fri	485/00 Konets	USB	(PY)
S11a	2-1	1400	10448	Fri	424/00 Konet	USB	(AB)
S11a	3-1	0830	5371	Sat	373/00 Konets	USB	(AB)
S11a	3-1	1850	11486	Sat	287/35 Vnimanaye 11443 27593 78848 ... 11209 39924 71353 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	4-1	0830	5371	Sun	376/00 Konets	USB	(AB)
S11a	5-1	0700	9050	Mon	476/35 Vnimanaye 67727 49810 58325 ... 54202 95194 24538 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	5-1	0915	6252	Mon	481/00 Konets	USB	(AB/Lac)
S11a	5-1	0915	6252	Mon	481/00 Konets	USB	(Subilo/Lac)
S11a	6-1	0445	11559	Tue	797/00 Konets	USB	(AB)
S11a	6-1	1400	10448	Tue	424/00 Konet	USB	(AB/Lac)
S11a	7-1	0725	19515	Wed	382/00 Konets	USB	(AB)
S11a	7-1	1850	11486	Wed	Active but too weak to copy	USB	(AB)
S11a	8-1	0700	9050	Thu	476/35 Vnimanaye 67727 49810 58325 ... 54202 95194 24538 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	9-1	0725	19515	Fri	385/00 Konets	USB	(AB)
S11a	9-1	0915	6252	Fri	484/00 Konets	USB	(AB)
S11a	9-1	0915	6252	Fri	484/00 Konets	USB	(Subilo)
S11a	9-1	1400	10448	Fri	420/00 Konet	USB	(AB)
S11a	10-1	0830	5371	Sat	377/00 Konets	USB	(AB)

S11a	10-1	1850	11486	Sat	282/00 Konets	USB	(AB)
S11a	11-1	0830	5371	Sun	370/00 Konets	USB	(AB)
S11a	12-1	0700	9050	Mon	479/00 Konets	USB	(AB)
S11a	12-1	0915	6252	Mon	487/00 Konets	USB	(AB/Subilo)
S11a	13-1	1400	10448	Tue	420/00 Konet	USB	(AB/Lac)
S11a	14-1	0725	19515	Wed	385/00 Konets	USB	(AB)
S11a	14-1	1850	11486	Wed	280/00 Konets	USB	(AB)
S11a	15-1	0700	9050	Thu	472/00 Konets	USB	(AB)
S11a	16-1	0725	19515	Fri	Null msg (too weak to copy)	USB	(AB)
S11a	16-1	0915	6252	Fri	482/00 Konets	USB	(AB)
S11a	16-1	1040	6252	Fri	Null	USB	(PY)
S11a	16-1	1400	10448	Fri	421/00 Konets	USB	(AB)
S11a	17-1	0830	5371	Sat	373/00 Konets	USB	(AB)
S11a	17-1	1850	11486	Sat	282/00 Konets	USB	(AB)
S11a	18-1	0830	5371	Sun	376/00 Konets	USB	(AB)
S11a	19-1	0700	9050	Mon	477/00 Konets	USB	(AB)
S11a	19-1	0915	6252	Mon	482/32 Vnimanaye 52563 69470 98005 ... 48302 01829 16801 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	20-1	1400	10448	Tue	426/38 Vnimanaye 79978 96223 80192 ... 32220 61692 16738 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	21-1	0725	19515	Wed	384/00 Konets	USB	(AB)
S11a	21-1	1850	11486	Wed	282/00 Konets	USB	(AB)
S11a	22-1	0700	9050	Thu	476/00 Konets	USB	(AB)
S11a	23-1	0725	19515	Fri	387/00 Konets (barely audible)	USB	(AB)
S11a	23-1	0915	6252	Fri	Not heard	USB	(AB)
S11a	23-1	1040	6252	Fri	Message	USB	(PY)
S11a	23-1	1400	10448	Fri	426/38 Vnimanaye 79978 96223 80192 ... 32220 61692 16738 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	24-1	0830	5371	Sat	377/38 Vnimanaye 28815 95428 12391 ... 44005 12597 55708 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	24-1	1850	11486	Sat	282/00 Konets	USB	(AB)
S11a	25-1	0830	5371	Sun	377/38 Vnimanaye 28815 95428 12391 ... 44005 12597 55708 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	26-1	0700	9050	Mon	470/00 Konets	USB	(AB)
S11a	26-1	0915	6252	Mon	483/00 Konets	USB	(AB/Subilo)
S11a	26-1	0915	6252	Mon	483/00	USB	(Lac)
S11a	27-1	1400	10448	Tue	421/00 Konets	USB	(AB)
S11a	28-1	0725	19515	Wed	384/34 Vnimanaye 01411 40962 11989 ... 23607 53256 84155 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	28-1	1850	11486	Wed	280/00 Konets	USB	(AB)
S11a	29-1	0700	9050	Thu	472/00 Konets	USB	(AB)
S11a	30-1	1040	6252	Fri	484/00 Konets	USB	(PY)
S11a	30-1	1400	10448	Fri	429/00 Konets	USB	(AB)
S11a	31-1	0830	5371	Sat	378/00 Konets	USB	(AB)
S11a	31-1	1850	11486	Sat	284/00 Konets	USB	(AB)
UM04	1-1	0800	4735	Thu	No transmission	CW	(AB-GRC)
UM04	2-1	0800	4735	Fri	No transmission	CW	(AB-GRC)
UM04	7-1	0800	4735	Wed	VVV VVV PROMRCh = 07 01 = 1000 0950 1010 1200 1740 ... 0800 0580 0620 0760 1120 = AR	CW	(AB-GRC)

UM04	8-1	0800	4735	Thu	VVV VVV PROMRCh = 08- 01 = 1000 0950 1010 1200 1740 ... 0800 0580 0620 0760 1120 = AR	CW	(AB-GRC)
UM04	9-1	0800	4735	Fri	VVV VVV PROMRCh = 09 01 = 1000 0960 1010 1210 1750 ... 0800 0580 0620 0750 1110 = AR	CW	(AB-GRC)
UM04	10-1	0800	4735	Sat	VVV VVV PROMRCh = 10 01 = 1000 0960 1020 1210 1750 ... 0800 0580 0620 0750 1110 = AR	CW	(Subilo/AB)
UM04	11-1	0800	4735	Sun	VVV VVV PROMRCh = 11 01 = 1000 0970 1030 1210 1760 ... 0800 0580 0620 0750 1110 = AR	CW	(AB-HNG)
UM04	12-1	0800	4735	Mon	VVV VVV PROMRCh = 12 01 = 1000 0960 1020 1210 1750 ... 0800 0570 0610 0750 1100 = AR	CW	(Subilo/AB)
UM04	13-1	0800	4735	Tue	VVV VVV PROMRCh = 13 01 = 1000 0910 0970 1160 1700 ... 0800 0560 0610 0740 1090 = AR	CW	(Subilo/AB)
UM04	14-1	0759	4735	Wed	VVV VVV PROMRCh = 14 01 = 1000 0960 1010 1200 1680 ... 0800 0570 0610 0740 1080 = AR	CW	(AB-GRC)
UM04	15-1	0800	4735	Thu	VVV VVV PROMRCh = 15 01 = 1000 0950 1000 1190 1730 ... 0800 0560 0600 0730 1090 = AR	CW	(AB-GRC)
UM04	16-1	0800	4735	Fri	No transmission	CW	(AB-GRC)
UM04	17-1	0800	4735	Sat	No transmission	CW	(AB-HNG)
UM04	19-1	0800	4735	Mon	VVV VVV PROMRCh = 19 01 = 1000 0910 0970 1150 ... 0800 0540 0580 0710 1050 = AR	CW	(AB-GRC)
UM04	20-1	0800	4735	Tue	VVV VVV PROMRCh = 20 01 = 1000 0910 0970 1150 1670 ... 0800 0540 0580 0700 1040 = AR	CW	(AB-HNG)
UM04	21-1	0800	4735	Wed	VVV VVV PROMRCh = 21 01 = 1000 0900 0960 1140 1660 ... 0800 0530 0570 0690 1030 = AR	CW	(AB-GRC)
UM04	22-1	0800	4735	Thu	No transmission	CW	(AB-GRC)
UM04	24-1	0800	4735	Sat	VVV VVV PROMRCh = 24 01 = 1000 0890 0950 1130 1640 ... 0800 0520 0560 0690 1020 = AR	CW	(AB-HNG)
UM04	25-1	0800	4735	Sun	VVV VVV PROMRCh = 25 01 = 1000 0890 0940 1130 1640 ... 0800 0520 0560 0690 1020 = AR	CW	(AB-GRC)
UM04	26-1	0800	4735	Mon	VVV VVV PROMRCh = 26 01 = 1000 0890 0940 1130 1640 ... 0800 0520 0560 0690 1030 = AR	CW	(AB-GRC)
UM04	27-1	0758	4735	Tue	VVV VVV PROMRCh = 27 01 = 1000 0890 0940 1120 1640 ... 0800 0520 0560 0690 1030 AR	CW	(AB-GRC)
UM04	28-1	0800	4735	Wed	VVV VVV PROMRCh = 28 01 = 1000 0890 0940 1120 1650 ... 0800 0530 0570 0690 1020 = AR	CW	(AB-GRC)
UM04	29-1	0800	4735	Thu	VVV VVV PROMRCh = 29 01 = 1000 0900 0950 1130 1650 ... 0800 0530 0570 0700 1040 = AR	CW	(AB-GRC)
UM04	30-1	0800	4735	Fri	VVV VVV PROMRCh = 30 01 = 1000 0970 1020 1210 1740 ... 0800 0550 0580 0710 1050 = AR	CW	(AB-HNG)
UM04	31-1	0800	4735	Sat	VVV VVV PROMRCh = 30 01 = 1000 0920 0970 1150 1680 ... 0800 0540 0680 0710 1050 = AR	CW	(AB-HNG)
UM10	1-1	1939	3250	Thu	VI4T (R10m)	CW	(JP)
UM10	1-1	1941	3531	Thu	JZZN (R10m) //4310 kHz	CW	(JP)
UM10	1-1	1941	4310	Thu	JZZN (R10m) //3531 kHz	CW	(JP)
USA	30-1	1534	11168.6	Fri	KWX91: US Consulate General Edinburgh clg KWX92: US embassy London	Mil-STD-188-141A/USB	(AB)
V13	26-1	1100	13974	Mon	New Star Broadcasting	USB	(AB-TWN)
V13	26-1	1100	14944	Mon	New Star Broadcasting	USB	(AB-TWN)
V13	26-1	1200	13974	Mon	New Star Broadcasting	USB	(AB-TWN)
V13	26-1	1300	11430	Mon	New Star Broadcasting	USB	(AB-TWN)
V13	26-1	1300	13974	Mon	New Star Broadcasting	USB	(AB-TWN)
V13	28-1	1300	13974	Wed	New Star Broadcasting	USB	(AB-THA)
V13	28-1	1400	13974	Wed	New Star Broadcasting. Carrier only	USB	(AB-THA)
V13	28-1	1400	14944	Wed	New Star Broadcasting. Carrier only	USB	(AB-THA)
V13	28-1	1430	13974	Wed	New Star Broadcasting. Carrier only	USB	(AB-THA)
V13	28-1	1430	14944	Wed	New Star Broadcasting. Carrier only	USB	(AB-THA)
X--	14-1	1126	19457	Wed	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	14-1	1132	18648	Wed	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	14-1	1136	17423	Wed	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	14-1	1140	16172	Wed	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	14-1	1144	15619	Wed	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	27-1	1254	18923	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)

X--	27-1	1302	15622	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	27-1	1306	13392	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	27-1	1334	19628	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X06	13-1	0813	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	13-1	1034	20813	Tue	MFA Moscow 216354: Russian Consulate General Chennai (not in sync with 17470)	MFSK-6	(Moon)
X06	13-1	1045	17470	Tue	MFA Moscow 216354: Russian Consulate General Chennai (not in sync with 20813)	MFSK-6	(Moon)
X06	13-1	1131	20815	Tue	MFA Moscow 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	13-1	1139	17520	Tue	MFA Moscow 612534: Russian embassy Ashgabat	MFSK-6	(Anon)
X06	13-1	1206	14970	Tue	MFA Moscow 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	13-1	1752	6979	Tue	116354	MFSK-6	(AB)
X06	13-1	1752	6979	Tue	116354	MFSK-6	(AB)
X06	14-1	0749	20334	Wed	MFA Moscow 164253: Russian embassy Addis Ababa	MFSK-6	(Moon)
X06	14-1	0824	11483	Wed	MFA Moscow 412356: Russian embassy Budapest	MFSK-6	(Moon)
X06	14-1	0851	11153	Wed	MFA Moscow 465132: Russian embassy Sofia	MFSK-6	(Moon)
X06	14-1	0853	13419	Wed	MFA Moscow 465132: Russian embassy Sofia	MFSK-6	(Moon)
X06	14-1	0904	14812	Wed	MFA Moscow clg 263145: Russian embassy Prague	MFSK-6	(AB)
X06	19-1	0832	14377	Mon	MFA Moscow clg 432516: Russian embassy Bern	MFSK-6	(AB/Moon)
X06	23-1	0926	12177	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(Moon)
X06	23-1	1010	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(Moon)
X06	25-1	1025	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06	26-1	0811	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	26-1	0811	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	27-1	1014	20813	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB/Moon)
X06	27-1	1021	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB/Moon)
X06	27-1	1032	14970	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB/Moon)
X06	27-1	1036	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB/Moon)
X06	27-1	1046	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	27-1	1154	17520	Tue	MFA Moscow clg 612534: Russian embassy Ashgabat	MFSK-6	(Moon)
X06	28-1	0746	20334	Wed	MFA Moscow clg 164253: Russian embassy Addis Ababa	MFSK-6	(Moon)
XPA1	2-1	1310	14852	Fri	895 895 895 000 07999 00001 00000 42270	MFSK-20/10bd	(AB)
XPA1	2-1	1330	13952	Fri	895 895 895 000 07999 00001 00000 42270	MFSK-20/10bd	(AB)
XPA1	2-1	1350	11552	Fri	895 895 895 000 07999 00001 00000 42270	MFSK-20/10bd	(AB)
XPA1	7-1	1310	14852	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	7-1	1330	13952	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	7-1	1350	11552	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	9-1	1310	14852	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	9-1	1330	13952	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	9-1	1350	11552	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	14-1	1310	14852	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	14-1	1330	13952	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	14-1	1350	11552	Wed	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	16-1	1310	14852	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)

XPA1	16-1	1330	13952	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	16-1	1350	11552	Fri	895 895 895 1 00510 00177 80363 ... 48178 66335 72322	MFSK-20/10bd	(AB)
XPA1	21-1	1310	14852	Wed	895 895 895 000 02361 00001 00000 33260	MFSK-20/10bd	(AB)
XPA1	21-1	1330	13952	Wed	895 895 895 000 02361 00001 00000 33260	MFSK-20/10bd	(AB)
XPA1	21-1	1350	11552	Wed	895 895 895 000 02361 00001 00000 33260	MFSK-20/10bd	(AB)
XPA1	23-1	1310	14852	Fri	895 895 895 000 09247 00001 00000 35665	MFSK-20/10bd	(AB)
XPA1	23-1	1330	13952	Fri	895 895 895 000 09247 00001 00000 35665	MFSK-20/10bd	(AB)
XPA1	23-1	1350	11552	Fri	895 895 895 000 09247 00001 00000 35665	MFSK-20/10bd	(AB)
XPA1	28-1	1310	14852	Wed	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA1	28-1	1330	13952	Wed	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA1	28-1	1350	11552	Wed	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA1	30-1	1310	14852	Fri	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA1	30-1	1330	13952	Fri	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA1	30-1	1350	11552	Fri	895 895 895 1 06982 00301 62391 ... 33578 20028 50511	MFSK-20/10bd	(AB)
XPA2	1-1	0900	18546	Thu	09793 00001 00000 36272	MFSK-16/20Bd	(PY)
XPA2	1-1	1100	13384	Thu	07946 00001 00000 40663	MFSK-16/20Bd	(AB)
XPA2	1-1	1120	12184	Thu	07946 00001 00000 40663	MFSK-16/20Bd	(AB)
XPA2	1-1	1140	10984	Thu	07946 00001 00000 40663	MFSK-16/20Bd	(AB)
XPA2	1-1	1700	11456	Thu	07628 00001 00000 30152	MFSK-16/20Bd	(AB)
XPA2	2-1	1100	10231	Fri	02020 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	2-1	1120	9331	Fri	02020 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	2-1	1140	8131	Fri	02020 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	2-1	1200	13878	Fri	06504 00001 00000 35656	MFSK-16/20Bd	(AB)
XPA2	2-1	1220	14978	Fri	06504 00001 00000 35656	MFSK-16/20Bd	(AB)
XPA2	2-1	1240	16278	Fri	06504 00001 00000 35656	MFSK-16/20Bd	(AB)
XPA2	3-1	0900	18546	Sat	04285 00001 00000 34664	MFSK-16/20Bd	(AB)
XPA2	3-1	0920	17436	Sat	04285 00001 00000 34664	MFSK-16/20Bd	(AB)
XPA2	3-1	0940	16137	Sat	04285 00001 00000 34664	MFSK-16/20Bd	(AB)
XPA2	3-1	1600	9317	Sat	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	3-1	1620	8117	Sat	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	3-1	1640	7517	Sat	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	5-1	0800	11493	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	5-1	0820	13393	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	5-1	0840	13993	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	5-1	0910	18482	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB/PY)
XPA2	5-1	0930	17427	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	5-1	0950	16201	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB/PY)
XPA2	5-1	1600	9317	Mon	08185 00001 00000 34270	MFSK-16/20Bd	(AB)
XPA2	5-1	1620	8117	Mon	08185 00001 00000 34270	MFSK-16/20Bd	(AB)
XPA2	5-1	1640	7517	Mon	08185 00001 00000 34270	MFSK-16/20Bd	(AB)
XPA2	6-1	1100	10231	Tue	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)
XPA2	6-1	1120	9331	Tue	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)

XPA2	6-1	1140	8131	Tue	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)
XPA2	6-1	1700	11456	Tue	05758 00001 00000 40662	MFSK-16/20Bd	(AB)
XPA2	6-1	1720	10614	Tue	05758 00001 00000 40662	MFSK-16/20Bd	(AB)
XPA2	6-1	1740	9256	Tue	05758 00001 00000 40662	MFSK-16/20Bd	(AB)
XPA2	7-1	0800	11493	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	7-1	0820	13393	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	7-1	0840	13993	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/20Bd	(AB)
XPA2	7-1	0910	18482	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	7-1	0930	17427	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	7-1	0950	16201	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	7-1	1100	13384	Wed	00913 00048 90587 ... 90003 90571 37230	MFSK-16/20Bd	(AB)
XPA2	7-1	1120	12184	Wed	00913 00048 90587 ... 90003 90571 37230	MFSK-16/20Bd	(AB)
XPA2	7-1	1140	10984	Wed	00913 00048 90587 ... 90003 90571 37230	MFSK-16/20Bd	(AB)
XPA2	7-1	1200	13878	Wed	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	7-1	1220	14978	Wed	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	7-1	1240	16278	Wed	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	8-1	0900	18546	Thu	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	8-1	0920	17436	Thu	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	8-1	0940	16137	Thu	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	8-1	1100	13384	Thu	Off after 13 secs	MFSK-16/20Bd	(AB)
XPA2	8-1	1120	12184	Thu	00913 00048 90587 ... 90003 90571 37230	MFSK-16/20Bd	(AB)
XPA2	8-1	1140	10984	Thu	00913 00048 90587 ... 90003 90571 37230	MFSK-16/20Bd	(AB)
XPA2	8-1	1700	11456	Thu	02569 00001 00000 40260	MFSK-16/20Bd	(AB)
XPA2	8-1	1720	10614	Thu	02569 00001 00000 40260	MFSK-16/20Bd	(AB)
XPA2	8-1	1740	9256	Thu	02569 00001 00000 40260	MFSK-16/20Bd	(AB)
XPA2	9-1	1100	10231	Fri	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)
XPA2	9-1	1120	9331	Fri	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)
XPA2	9-1	1140	8131	Fri	01852 00070 73180 ... 07757 51507 24755	MFSK-16/20Bd	(AB)
XPA2	9-1	1200	13878	Fri	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	9-1	1220	14978	Fri	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	9-1	1240	16278	Fri	01645 00080 66768 ... 99179 98060 66073	MFSK-16/20Bd	(AB)
XPA2	10-1	0900	18546	Sat	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	10-1	0920	17436	Sat	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	10-1	0940	16137	Sat	00935 00048 02723 ... 89709 74482 43705	MFSK-16/20Bd	(AB)
XPA2	10-1	1600	9317	Sat	01716 00001 00000 37652	MFSK-16/20Bd	(AB)
XPA2	10-1	1620	8117	Sat	01716 00001 00000 37652	MFSK-16/20Bd	(AB)
XPA2	10-1	1640	7517	Sat	01716 00001 00000 37652	MFSK-16/20Bd	(AB)
XPA2	12-1	0800	11493	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	12-1	0820	13393	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	12-1	0840	13993	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	12-1	0910	18482	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	12-1	0930	17427	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)

XPA2	12-1	0950	16201	Mon	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	12-1	1600	9317	Mon	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)
XPA2	12-1	1620	8117	Mon	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)
XPA2	12-1	1640	7517	Mon	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)
XPA2	13-1	1100	10231	Tue	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	13-1	1120	9331	Tue	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	13-1	1140	8131	Tue	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	13-1	1700	11456	Tue	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	13-1	1720	10614	Tue	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	13-1	1740	9256	Tue	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	14-1	0800	11493	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	14-1	0820	13393	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	14-1	0840	13993	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	14-1	0910	18482	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	14-1	0930	17427	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	14-1	0950	16201	Wed	00977 00088 58399 ... 04312 38410 45153	MFSK-16/20Bd	(AB)
XPA2	14-1	1100	13384	Wed	02800 00001 00000 35252	MFSK-16/20Bd	(AB)
XPA2	14-1	1120	12184	Wed	02800 00001 00000 35252	MFSK-16/20Bd	(AB)
XPA2	14-1	1140	10984	Wed	02800 00001 00000 35252	MFSK-16/20Bd	(AB)
XPA2	14-1	1200	13878	Wed	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	14-1	1220	14978	Wed	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	14-1	1240	16278	Wed	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	15-1	0900	18546	Thu	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	15-1	0920	17436	Thu	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	15-1	0940	16137	Thu	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	15-1	1100	13384	Thu	06425 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	15-1	1120	12184	Thu	06425 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	15-1	1140	10984	Thu	06425 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	15-1	1700	11456	Thu	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	15-1	1720	10614	Thu	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	15-1	1740	9256	Thu	00998 00185 60633 ... 32538 36730 03036	MFSK-16/20Bd	(AB)
XPA2	16-1	1100	10231	Fri	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	16-1	1120	9331	Fri	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	16-1	1140	8131	Fri	05356 00130 25780 ... 14438 25655 17415	MFSK-16/20Bd	(AB)
XPA2	16-1	1200	13878	Fri	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	16-1	1220	14978	Fri	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	16-1	1240	16278	Fri	00369 00180 20850 ... 78660 65338 00560	MFSK-16/20Bd	(AB)
XPA2	17-1	0900	18546	Sat	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	17-1	0920	17436	Sat	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	17-1	0940	16137	Sat	00852 00090 39964 ... 86544 05526 41075	MFSK-16/20Bd	(AB)
XPA2	17-1	1600	9317	Sat	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)
XPA2	17-1	1620	8117	Sat	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)

XPA2	17-1	1640	7517	Sat	09758 00173 24987 ... 34511 69419 16727	MFSK-16/20Bd	(AB)
XPA2	19-1	0800	11493	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	19-1	0820	13393	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	19-1	0840	13993	Mon	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	19-1	0910	18482	Mon	06465 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	19-1	0930	17427	Mon	06465 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	19-1	0950	16201	Mon	06465 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	19-1	1600	9317	Mon	05498 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	19-1	1620	8117	Mon	05498 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	19-1	1640	7517	Mon	05498 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	20-1	1100	10231	Tue	07696 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20-1	1120	9331	Tue	07696 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20-1	1140	8131	Tue	07696 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20-1	1700	11456	Tue	08033 00001 00000 32663	MFSK-16/20Bd	(AB)
XPA2	20-1	1720	10614	Tue	08033 00001 00000 32663	MFSK-16/20Bd	(AB)
XPA2	20-1	1740	9256	Tue	08033 00001 00000 32663	MFSK-16/20Bd	(AB)
XPA2	21-1	0800	11493	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	21-1	0820	13393	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	21-1	0840	13993	Wed	00696 00510 39275 ... 43839 76958 54103	MFSK-16/20Bd	(AB)
XPA2	21-1	0910	18482	Wed	08720 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	21-1	0930	17427	Wed	08720 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	21-1	0950	16201	Wed	08720 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	21-1	1100	13384	Wed	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	21-1	1120	12184	Wed	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	21-1	1140	10984	Wed	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	21-1	1200	13878	Wed	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)
XPA2	21-1	1220	14978	Wed	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)
XPA2	21-1	1240	16278	Wed	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)
XPA2	22-1	0900	18546	Thu	07958 00001 00000 41664	MFSK-16/20Bd	(AB)
XPA2	22-1	0920	17436	Thu	07958 00001 00000 41664	MFSK-16/20Bd	(AB)
XPA2	22-1	0940	16137	Thu	07958 00001 00000 41664	MFSK-16/20Bd	(AB)
XPA2	22-1	1100	13384	Thu	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	22-1	1120	12184	Thu	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	22-1	1140	10984	Thu	03081 00099 85829 ... 34965 78528 11370	MFSK-16/20Bd	(AB)
XPA2	22-1	1700	11456	Thu	05465 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	22-1	1720	10614	Thu	05465 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	22-1	1740	9256	Thu	05465 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	23-1	1100	10231	Fri	06125 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	23-1	1120	9331	Fri	06125 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	23-1	1140	8131	Fri	06125 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	23-1	1200	13878	Fri	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)
XPA2	23-1	1220	14978	Fri	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)

XPA2	23-1	1240	16278	Fri	05779 00093 24555 ... 24774 49007 17262	MFSK-16/20Bd	(AB)
XPA2	24-1	0900	18546	Sat	08914 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	24-1	0920	17436	Sat	08914 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	24-1	0940	16137	Sat	08914 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	24-1	1600	9317	Sat	01157 00001 00000 35256	MFSK-16/20Bd	(AB)
XPA2	24-1	1620	8117	Sat	01157 00001 00000 35256	MFSK-16/20Bd	(AB)
XPA2	24-1	1640	7517	Sat	01157 00001 00000 35256	MFSK-16/20Bd	(AB)
XPA2	26-1	0800	11493	Mon	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	26-1	0820	13393	Mon	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	26-1	0840	13993	Mon	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	26-1	0910	18482	Mon	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	26-1	0930	17427	Mon	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	26-1	0950	16201	Mon	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	26-1	1600	9317	Mon	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPA2	26-1	1620	8117	Mon	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPA2	26-1	1640	7517	Mon	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPA2	27-1	1100	10231	Tue	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	27-1	1120	9331	Tue	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	27-1	1140	8131	Tue	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	27-1	1700	11456	Tue	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)
XPA2	27-1	1720	10614	Tue	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)
XPA2	27-1	1740	9256	Tue	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)
XPA2	28-1	0800	11493	Wed	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	28-1	0820	13393	Wed	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	28-1	0840	13993	Wed	02127 00179 67184 ... 29470 92064 23316	MFSK-16/20Bd	(AB)
XPA2	28-1	0910	18482	Wed	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	28-1	0930	17427	Wed	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	28-1	0950	16201	Wed	00882 00124 81804 ... 11132 44345 07624	MFSK-16/20Bd	(AB)
XPA2	28-1	1100	13384	Wed	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	28-1	1120	12184	Wed	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	28-1	1140	10984	Wed	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	28-1	1200	13878	Wed	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	28-1	1220	14978	Wed	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	28-1	1240	16278	Wed	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	29-1	0900	18546	Thu	06840 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	29-1	0920	17436	Thu	06840 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	29-1	0940	16137	Thu	06840 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	29-1	1100	13384	Thu	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	29-1	1120	12184	Thu	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	29-1	1140	10984	Thu	08323 00164 31581 ... 88663 91997 26233	MFSK-16/20Bd	(AB)
XPA2	29-1	1700	11456	Thu	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)
XPA2	29-1	1720	10614	Thu	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)

XPA2	29-1	1740	9256	Thu	07508 00166 32484 ... 71911 21420 31164	MFSK-16/20Bd	(AB)
XPA2	30-1	1100	10231	Fri	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	30-1	1120	9331	Fri	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	30-1	1140	8131	Fri	08790 00070 73383 ... 09040 67126 02043	MFSK-16/20Bd	(AB)
XPA2	30-1	1200	13878	Fri	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	30-1	1220	14978	Fri	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	30-1	1240	16278	Fri	00864 00112 26950 ... 06416 49230 46305	MFSK-16/20Bd	(AB)
XPA2	31-1	0900	18546	Sat	07820 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	31-1	0920	17436	Sat	07820 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	31-1	0940	16137	Sat	07820 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	31-1	1600	9317	Sat	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPA2	31-1	1620	8117	Sat	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPA2	31-1	1640	7517	Sat	05683 00152 55041 ... 46793 44528 35564	MFSK-16/20Bd	(AB)
XPB	2-1	1300	20069	Fri	Russian intel.	MFSK-16	(AB)
XPB	2-1	1310	19369	Fri	Russian intel.	MFSK-16	(AB)
XPB	2-1	1320	18269	Fri	Russian intel.	MFSK-16	(AB)
XPB	2-1	1330	17469	Fri	Russian intel.	MFSK-16	(AB)
XPB	2-1	1340	16269	Fri	Russian intel.	MFSK-16	(AB)
XPB	2-1	1350	15969	Fri	Russian intel.	MFSK-16	(AB)
XPB	5-1	0600	19343	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	5-1	0610	18243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	5-1	0620	17443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	5-1	0630	16243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	5-1	0640	15843	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	5-1	0650	14443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0600	19343	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0610	18243	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0620	17443	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0630	16243	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0640	15843	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	0650	14443	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	6-1	1300	20069	Tue	Russian intel.	MFSK-16	(AB)
XPB	6-1	1310	19369	Tue	Russian intel.	MFSK-16	(AB)
XPB	6-1	1320	18269	Tue	Russian intel.	MFSK-16	(AB)
XPB	6-1	1330	17469	Tue	Russian intel.	MFSK-16	(AB)
XPB	6-1	1340	16269	Tue	Russian intel.	MFSK-16	(AB)
XPB	6-1	1350	15969	Tue	Russian intel.	MFSK-16	(AB)
XPB	9-1	1300	20069	Fri	Russian intel.	MFSK-16	(AB)
XPB	9-1	1310	19369	Fri	Russian intel.	MFSK-16	(AB)
XPB	9-1	1320	18269	Fri	Russian intel.	MFSK-16	(AB)
XPB	9-1	1330	17469	Fri	Russian intel.	MFSK-16	(AB)
XPB	9-1	1340	16269	Fri	Russian intel.	MFSK-16	(AB)

XPB	9-1	1350	15969	Fri	Russian intel.	MFSK-16	(AB)
XPB	12-1	0600	19343	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	12-1	0610	18243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	12-1	0620	17443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	12-1	0630	16243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	12-1	0640	15843	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	12-1	0660	14443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0600	19343	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0610	18243	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0620	17443	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0630	16243	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0640	15843	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	0650	14443	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	13-1	1300	20069	Tue	Russian intel.	MFSK-16	(AB)
XPB	13-1	1310	19369	Tue	Russian intel.	MFSK-16	(AB)
XPB	13-1	1320	18269	Tue	Russian intel.	MFSK-16	(AB)
XPB	13-1	1330	17469	Tue	Russian intel.	MFSK-16	(AB)
XPB	13-1	1340	16269	Tue	Russian intel.	MFSK-16	(AB)
XPB	13-1	1350	15969	Tue	Russian intel.	MFSK-16	(AB)
XPB	16-1	1300	20069	Fri	Russian intel.	MFSK-16	(AB)
XPB	16-1	1310	19369	Fri	Russian intel.	MFSK-16	(AB)
XPB	16-1	1320	18269	Fri	Russian intel.	MFSK-16	(AB)
XPB	16-1	1330	17469	Fri	Russian intel.	MFSK-16	(AB)
XPB	16-1	1340	16269	Fri	Russian intel.	MFSK-16	(AB)
XPB	16-1	1350	15969	Fri	Russian intel.	MFSK-16	(AB)
XPB	19-1	0600	19343	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	19-1	0610	18243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	19-1	0620	17443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	19-1	0630	16243	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	19-1	0640	15843	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	19-1	0650	14443	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	20-1	0600	19343	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	0610	18243	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	0620	17443	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	0630	16243	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	20-1	0640	15843	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	20-1	0650	14443	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	20-1	1300	20069	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	1310	19369	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	1320	18269	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	1330	17469	Tue	Russian intel.	MFSK-16	(AB)
XPB	20-1	1340	16269	Tue	Russian intel.	MFSK-16	(AB)

XPB	20-1	1350	15969	Tue	Russian intel.	MFSK-16	(AB)
XPB	23-1	1300	20069	Fri	Russian intel.	MFSK-16	(AB)
XPB	23-1	1310	19369	Fri	Russian intel.	MFSK-16	(AB/RL)
XPB	23-1	1320	18269	Fri	Russian intel.	MFSK-16	(AB)
XPB	23-1	1330	17469	Fri	Russian intel.	MFSK-16	(AB)
XPB	23-1	1340	16269	Fri	Russian intel.	MFSK-16	(AB)
XPB	23-1	1350	15969	Fri	Russian intel.	MFSK-16	(AB)
XPB	26-1	0600	19461	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	26-1	0610	19261	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	26-1	0620	18261	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	26-1	0630	16261	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	26-1	0640	15861	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	26-1	0650	14961	Mon	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0600	19461	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0610	19261	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0620	18261	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0630	16261	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0640	15861	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	0650	14961	Tue	Russian intel.	MFSK-16	(AB/Subilo)
XPB	27-1	1300	20069	Tue	Russian intel.	MFSK-16	(AB)
XPB	27-1	1310	19369	Tue	Russian intel.	MFSK-16	(AB)
XPB	27-1	1320	18269	Tue	Russian intel.	MFSK-16	(AB)
XPB	27-1	1330	17469	Tue	Russian intel.	MFSK-16	(AB)
XPB	27-1	1340	16269	Tue	Russian intel.	MFSK-16	(AB)
XPB	27-1	1350	15969	Tue	Russian intel.	MFSK-16	(AB)
XPB	30-1	1300	20069	Fri	Russian intel.	MFSK-16	(AB)
XPB	30-1	1310	19369	Fri	Russian intel.	MFSK-16	(AB/RL)
XPB	30-1	1320	18269	Fri	Russian intel.	MFSK-16	(AB)
XPB	30-1	1330	17469	Fri	Russian intel.	MFSK-16	(AB)
XPB	30-1	1340	16269	Fri	Russian intel.	MFSK-16	(AB)
XPB	30-1	1350	15969	Fri	Russian intel.	MFSK-16	(AB)



CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-BER	Ary Boender via remote rx Bermuda
AB-CYP	Ary Boender via remote rx Cyprus
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-ISL	Ary Boender via remote rx Iceland
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
AB-THA	Ary Boender via remote rx Thailand
AB-TWN	Ary Boender via remote rx Taiwan
AB-USA	Ary Boender via remote rx USA
Anon	Anonymous
BR	Brian Rogers, UK
EW	Eddy Waters, Australia
FD	Full Day Waterfall, University Twente SDR
JPL	JPL, NB, Canada (and various remote rx)
Lac	Lazycrypt
Moon	Moonlight (Dave AU)
PY	Pierre Ynard, France and via remote rx
RL	Roberto Landolpho, Brazil
RO	Rando One, Sweden
Subilo	Subilo
TJ	Trond Jacobsen, Norway

LIST OF ACTIVE STATIONS

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		X	MFSK modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msg	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed dig-its	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msg. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			
M89	Markers like V YHDX YHDX YHDX DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military

M89v	M89 voice transmissions	CHN		Chinese military
M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese miliary
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-20/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-16/20Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy
X--	21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing	RUA	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence

APPENDIX

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- . . . - -
C	- . . .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	 -	Question mark	[?]	. . - - . .
E	.	5		Exclamation mark	[!]	- . . . - -
F	. . - .	6	-	Apostrophe	[']	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H		8	- - - . .	Slash	[/]	- . . . -
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - . -
K	- . -			Quotation marks	[" "]	. - . . .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .			Plus sign	[+]	. - . - .
O	- - -			Invitation to transmit		- . -
P	. - - .			Wait	[AS]	. - . . .
Q	- - . -			End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ö		End of message	[AR]	. - . - .
S	. . .			Starting signal		- . . . -
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - . -
W	. - -			Ampersand	[&]	. - . . .
X	- . . -					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also

<http://udxf.nl/Morse-document.pdf>

<http://udxf.nl/Russian.pdf>

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3rd shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	nul	Null	Zero
1	. — — — —	Một	Van	adinka	Eins	One
2	. . — — —	Hai	To	dvoyka	Twso	Two
3	. . . — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bô'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — . . .	Ba y	Seven	syem	Sieben	Seven
8	— — — . .	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	—					
/	—					

Note: E17z, M03 and M08a are defunct.



COLOPHON

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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923 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98670 27681 56701 57601 73648 1
591 87364 87265 96710 27630 12673 84769 28743 98127 0
8 63298 75698 27465 87326 49876 28376 81273 98615 0
67 87432 74328 78674 29867 32867 67867 86786 43286 432
17 68768 68763 34234 34238 68768 62342 48273 48768 234
936 98432 32432 86743 43286 43286 43286 43286 43286 86
743 86743 86743 39867 32867 86743 43286 43286 43243 86
743 86743 86743 86743 86743 86743 86743 86743 86743 43
983 98798 98754 98754 98754 29867 67543 67986 867
76 87698 69876 87698 69876 87612 12341 34867 86798 65
887 83298 65656 56756 56123 32143 14321 32143 14321 321
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